

CASS COUNTY

INCLUDED: [Significant feature(s) of bridge given in boldface]
[Field inventoried bridge indicated by asterisk]

| Inv. No. | MHTD | Bridge Name | Description |
|----------|----------|-------------------------|--|
| *CASS01 | H 453R1 | Archie Bridge | 3-140' steel plate deck girder 1951 Knutson-Gould Constr. Co. |
| *CASS02 | L 23R | CRI&P Railroad Overpass | 1-260' riveted Parker through truss 1948 Perry McGlone Constr. Co. (replaced) |
| CASS03 | 016000.7 | West Fork Bridge | |
| CASS04 | 058001.1 | Bridge | 1- 45' c1910 pinned Pratt bedstead |
| CASS05 | 073000.6 | Big Creek Bridge | 1- 60' c1905 pinned Pratt bedstead |
| CASS06 | 078001.3 | Middle Big Creek Bridge | 1- 80' c1910 pinned Pratt pony truss |
| CASS07 | 109000.0 | Duncan Creek Bridge | 1- 65' c1910 pinned Pratt half-hip pony truss |
| CASS08 | 112000.4 | Big Creek Bridge | 1- 60' c1910 pinned Pratt pony truss |
| CASS09 | 117000.5 | Camp Creek Bridge | 1- 55' c1905 pinned Pratt pony truss |
| CASS10 | 126001.7 | East Creek Bridge | (replaced) |
| CASS11 | 139000.1 | Strasburg Bridge | (replaced) |
| CASS12 | 140000.6 | Templeton Bridge | 1- 40' 1905 pinned Pratt bedstead George Bird, Harrisonville MO (replaced) |
| CASS13 | 141001.4 | East Creek Bridge | |
| CASS14 | 149001.1 | Crawford Creek Bridge | 1- 55' c1890 pinned Pratt pony truss Kansas City B&I Company (replaced) |
| CASS15 | 154001.6 | Big Creek Bridge | |
| CASS16 | 162001.2 | Crawford Creek Bridge | 1- 45' c1905 pinned Pratt bedstead S.B. Coutts, Harrisonville MO |
| CASS17 | 165000.0 | Crawford Creek Bridge | 1- 60' 1910 pinned Pratt half-hip pony truss Canton Bridge Co., Canton OH |
| CASS18 | 170004.1 | Massey Creek Bridge | 1- 55' c1910 pinned Pratt pony truss |
| CASS19 | 187000.2 | Town Creek Bridge | 1- 25' c1910 pinned Pratt half-hip pony truss |
| CASS20 | 191000.2 | Massey Creek Bridge | 1- 75' 1910 pinned Pratt half-hip pony truss Western Bridge Company (replaced) |
| *CASS21 | 193001.0 | Hall Bridge | |
| *CASS22 | 194000.4 | Massey Creek Bridge | 1- 85' c1890 pinned Pratt through truss |
| CASS23 | 213000.6 | Lusher Bridge | 1- 40' 1911 pinned Pratt pony truss Western Bridge Company |
| CASS24 | 217000.1 | Coldwater Creek Bridge | 1- 55' c1910 pinned Pratt bedstead |
| CASS25 | 230001.7 | Wolf Creek Bridge | 1- 50' c1915 pinned Pratt half-hip pony truss |

CASS COUNTY

INCLUDED (cont.):

| | | | | |
|---------|----------|--------------------------|--------|-----------------------------------|
| CASS26 | 265000.8 | Wolf Creek Bridge | 1- 40' | pinned Pratt bedstead |
| | | | c1910 | |
| CASS27 | 282000.4 | Camp Creek Bridge | | (replaced) |
| *CASS28 | 299000.3 | Grand River Bridge | 1- 98' | bowstring pony arch-truss |
| | | | c1880 | Mo. Valley B&I Works (prob.) |
| CASS29 | 300000.6 | Price and Colburn Bridge | 1- 80' | pinned Pratt pony truss |
| | | | 1910 | George Bird, Harrisonville MO |
| CASS30 | 329000.9 | Wolf Creek Bridge | | (destroyed) |
| CASS31 | 329001.3 | East Branch Bridge | 1- 70' | pinned Pratt half-hip pony truss |
| | | | c1910 | |
| *CASS32 | 338000.7 | Russell Bridge | 1- 24' | pinned kingpost pony truss |
| | | | 1905 | George Bird, Harrisonville MO |
| CASS33 | 342001.4 | Eight Mile Creek Bridge | 1- 34' | pinned Pratt bedstead |
| | | | c1905 | Western Bridge Company |
| CASS34 | 347000.5 | East Fork Bridge | 1- 70' | pinned Pratt pony truss |
| | | | c1910 | |
| *CASS35 | 361000.6 | East Fork Bridge | 1- 70' | pinned Pratt through truss |
| | | | c1890 | Kansas City Bridge Company |
| *CASS36 | 364000.4 | Prewitt Bridge | 1- 32' | pinned kingpost pony truss |
| | | | 1905 | George Bird, Harrisonville MO |
| CASS37 | 369000.6 | East Fork Bridge | | (replaced) |
| CASS38 | 382000.8 | Eight Mile Creek Bridge | 1- 50' | pinned Pratt pony truss |
| | | | 1918 | Western Bridge Company |
| CASS39 | 385000.5 | Camp Creek Bridge | | (replaced) |
| CASS40 | 386000.3 | Camp Creek Bridge | 1- 40' | pinned Pratt bedstead |
| | | | c1905 | |
| CASS41 | 392001.1 | Campbell Bridge | | (replaced) |
| CASS42 | 393001.7 | Camp Creek Bridge | 1- 48' | pinned Pratt half-hip pony truss |
| | | | 1912 | Canton Bridge Co., Canton OH |
| CASS43 | 394001.0 | Crooked Creek Bridge | 1- 40' | pinned Pratt bedstead |
| | | | c1905 | |
| CASS44 | 402002.2 | Camp Creek Bridge | | (destroyed) |
| CASS45 | 407000.4 | Camp Creek Bridge | 1- 68' | pinned Pratt pony truss |
| | | | c1915 | |
| CASS46 | 413001.2 | Clear Creek Bridge | | (replaced) |
| CASS47 | 438000.4 | Sugar Creek Bridge | | (replaced) |
| CASS48 | 450000.5 | Big Creek Bridge | 1- 50' | pinned Pratt bedstead |
| | | | c1905 | Western Bridge Company |
| CASS49 | 470001.4 | Rocky Branch Bridge | 1- 45' | pinned Pratt bedstead |
| | | | 1906 | Western Bridge Company |
| CASS50 | 480000.2 | Walnut Creek Bridge | 1- 30' | pinned Pratt bedstead |
| | | | c1905 | Western Bridge Company |
| *CASS51 | 485002.8 | Bridge | | (replaced) |
| *CASS52 | 488000.2 | Harding Creek Bridge | 1- 45' | pinned Pratt bedstead |
| | | | 1906 | Western Bridge Company |
| *CASS53 | 511001.0 | South Fork Bridge | 1- 70' | pinned Pratt bedstead |
| | | | c1905 | |

CASS COUNTY

INCLUDED (cont.):

| | | | | |
|---------|----------|-------------------------|--------|----------------------------|
| CASS54 | 530000.2 | Black Creek Bridge | 1- 35' | pinned Pratt bedstead |
| | | | c1905 | |
| *CASS55 | 534002.2 | Grand River Bridge | 1- 64' | pinned Pratt through truss |
| | | | 1884 | Osage Bridge & Iron Works |
| *CASS56 | 540000.8 | App Bridge | 1- 40' | pinned Pratt bedstead |
| | | | 1897 | Farnsworth and Blodgett |
| CASS57 | 558002.0 | Eight Mile Creek Bridge | | (replaced) |
| CASS58 | 564000.5 | Eight Mile Creek Bridge | 1- 55' | pinned Pratt pony truss |
| | | | c1915 | |
| CASS59 | 577001.5 | Grand River Bridge | 1-100' | riveted Warren pony truss |
| | | | c1930 | |
| CASS60 | 587001.2 | Sugar Creek Bridge | 1- 60' | pinned Pratt pony truss |
| | | | c1915 | |
| *CASS61 | 592001.9 | Joslin Branch Bridge | 1- 50' | pinned Pratt half-hip pony |
| | | | c1910 | |
| CASS62 | 605001.7 | Lick Creek Bridge | 1- 50' | pinned Pratt bedstead |
| | | | c1905 | |
| CASS63 | 606001.7 | Lick Creek Bridge | 1- 40' | pinned Pratt bedstead |
| | | | c1905 | |
| CASS64 | 632001.6 | Creighton Bridge | | (replaced) |
| CASS65 | 659000.1 | Massey Creek Bridge | 1- 70' | pinned Pratt pony truss |
| | | | 1919 | Kansas City Bridge Company |
| *CASS66 | none | Clark Bridge | 1- | pinned Pratt through truss |
| | | | 1880 | Missouri Valley B&I Works |

EXCLUDED:

Pratt pony truss

080000.4 233001.0 418000.5 452001.3 485000.6

Warren pony truss

100000.3 170003.8 175000.7 263000.7 366000.8 520000.4 529000.8
542000.2 543000.2 590001.0 657000.5

Steel stringer

| | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|
| G 485R1 | L 24 | L 327R | S 14 | S 15 | S 34 | T 647 |
| W 122 | Y 947 | 014001.0 | 037001.8 | 072000.9 | 126001.0 | 133000.4 |
| 143000.8 | 144000.3 | 149001.9 | 152001.6 | 158000.4 | 160001.1 | 161000.5 |
| 161001.1 | 182000.3 | 182000.8 | 187000.4 | 195001.3 | 204000.9 | 205000.2 |
| 218001.9 | 285000.4 | 367000.7 | 370000.6 | 371000.1 | 378000.7 | 428000.8 |
| 439000.3 | 440001.4 | 441000.2 | 467003.7 | 472000.9 | 489001.1 | 537000.6 |
| 545002.6 | 557000.0 | 557000.4 | 573000.7 | 578000.7 | 588000.5 | 619001.2 |
| 658000.1 | | | | | | |

Steel girder

T 502

CASS COUNTY

EXCLUDED (cont.):

Concrete girder

| | | | | | | |
|-------|---------|----------|----------|----------|-------|-------|
| G 311 | G 484R1 | H 419R | H 564 | H 565 | K 497 | K 498 |
| K 558 | L 173 | U1870001 | 232000.0 | 282001.5 | | |

Concrete slab

| | | | | | |
|---------|---------|-------|-------|-------|----------|
| G 618R1 | G 619R1 | L 25R | L 32R | Y 875 | 579000.5 |
|---------|---------|-------|-------|-------|----------|

Concrete box culvert

| | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|
| G 985 | G 986R | H 416 | H 420 | J 78R | J 88 | J 632 |
| J 920 | J 921 | J 922 | J 931 | T 505 | T 648 | U1870003 |
| X 464 | 061001.6 | 131000.4 | 218001.1 | 226001.5 | 281000.7 | |

SUMMARY:

| | Primary | Secondary | Urban | Other | Total |
|----------|---------|-----------|-------|-------|----------------|
| Included | 2 | 46 | 0 | 1 | 49 |
| Excluded | 38 | 65 | 2 | 0 | 105 |
| | 40 | 111 | 2 | 1 | 154 structures |

Archie Bridge

CASS01

GENERAL DATA

| | | | |
|----------------|---------|------------------|--|
| structure no.: | H 453R1 | city/town: | Archie |
| county: | Cass | feature inters.: | South Grand River |
| | | cadastral grid: | S27/34, T43N, R31W |
| | | highway route: | U.S. Highway 71 |
| | | highway distr.: | 4 |
| | | current owner: | Missouri Highway and Transportation Department |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|------------------------------------|
| superstructure: | steel, variable depth, plate deck girder, skewed | | |
| substructure: | concrete abutments, wingwalls and piers | | |
| span number: | 3 | condition: | good |
| span length: | 140.0' | alterations: | superstructure replaced, 1951 |
| total length: | 325.0' | floor/decking: | concrete deck over steel stringers |
| roadway width: | 28.0' | other features: | steel channel guardrails |

HISTORICAL DATA

| | |
|----------------|---|
| erection date: | 1926; rebuilt 1951 |
| erection cost: | \$171,209.90 |
| designer: | Missouri State Highway Department |
| fabricator: | unknown |
| contractor: | Koch and McGlone (substructure); Knutson-Gould Construction Company, Kansas City MO (superstructure) |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number H 453R1; Primary System Bridge Record, located at the Missouri Highway and Transportation Department, Jefferson City MO; field inspection by Mark Hufstetler, 10 February 1991. |
| sign. rating: | 38 |
| evaluation: | NRHP non-eligible (long-span example of MSHD beam bridge type, built relatively late and not exceptionally significant) |

inventoried by: Mark Hufstetler 27 August 1992

CRI&P Railroad Overpass

CASS02

GENERAL DATA

| | | | |
|----------------|-------|------------------|--|
| structure no.: | L 23R | city/town: | 1.1 miles south of Baldwin Park |
| county: | Cass | feature inters.: | Chicago, Rock Island & Pacific Railroad |
| | | cadastral grid: | S29, T46N, R30W |
| | | highway route: | State Highway 7 |
| | | highway distr.: | 4 |
| | | current owner: | Missouri Highway and Transportation Department |

STRUCTURAL DATA

superstructure: steel, 10-panel, rigid-connected Parker through truss
substructure: concrete abutments, wingwalls and piers

| | | | |
|----------------|--------|-----------------|---|
| span number: | 1 | condition: | fair |
| span length: | 260.0' | alterations: | none |
| total length: | 481.0' | floor/decking : | concrete deck over steel stringers |
| roadway width: | 26.0' | other features: | upper chord and inclined end post: 2 channels with cover plates; lower chord, vertical and diagonal: 4 angles; lateral bracing: 2 angles with batten plates; floor beam: I-beam, field-bolted to verticals; guardrail: concrete |

HISTORICAL DATA

erection date: 1948
erection cost: \$215,870.15
designer: Missouri State Highway Department
fabricator : unknown
contractor: Perry McGlone Construction Company

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number L 23R; Files on primary system bridges located at the Missouri Highway and Transportation Department, Jefferson City MO; field inspection by Mark Hufstetler, 10 February 1991.

sign. rating: 39
evaluation: NRHP non-eligible (long-span example of MSHD truss design, not exceptionally significant)

Inventoried by: Mark Hufstetler 27 August 1992

Bridge

CASS04

GENERAL DATA

| | | | |
|----------------|----------|------------------|--------------------------------|
| structure no.: | 058001.1 | city/town: | 4.2 miles northeast of Raymore |
| county: | Cass | feature inters.: | branch of Middle Creek |
| | | cadastral grid: | S8, T46N, R31W |
| | | highway route: | County Road 58 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

superstructure: steel, 3-panel, pin-connected Pratt truss-leg bedstead
substructure: concrete abutments and wingwalls

| | | | |
|----------------|-------|-----------------|-------------|
| span number: | 1 | condition: | fair |
| span length: | 45.0' | alterations: | unknown |
| total length: | 48.0' | floor/decking : | timber deck |
| roadway width: | 14.0' | other features: | unknown |

HISTORICAL DATA

erection date: c1910
erection cost: unknown
designer: unknown
fabricator : unknown
contractor: unknown

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 058001.1.

sign. rating: 25
evaluation: NRHP non-eligible (typically configured, inadequately documented example of relatively common structural type)

inventoried by: Mark Hufstetler 27 August 1992

Bridge

CASS05

GENERAL DATA

| | | | |
|----------------|----------|------------------|--------------------------------------|
| structure no.: | 073000.6 | city/town: | 2.2 miles northwest of Pleasant Hill |
| county: | Cass | feature inters.: | branch of Big Creek |
| | | cadastral grid: | S12, T46N, R31W |
| | | highway route: | County Road 73 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

superstructure: steel, pin-connected Pratt truss-leg bedstead
substructure: steel truss-leg abutments with timber backwalls

| | | | |
|----------------|-------|-----------------|-------------------|
| span number: | 1 | condition: | fair |
| span length: | 60.0' | alterations: | unknown |
| total length: | 60.0' | floor/decking : | timber deck |
| roadway width: | 14.0' | other features: | timber guardrails |

HISTORICAL DATA

erection date: c1905
erection cost: unknown
designer: unknown
fabricator : unknown
contractor: unknown

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 073000.6.

sign. rating: 29
evaluation: NRHP non-eligible (typically configured, inadequately documented example of relatively common structural type)

inventoried by: Mark Hufstetler 27 August 1992

Big Creek Bridge

CASS06

GENERAL DATA

| | | | |
|----------------|----------|------------------|--------------------------------------|
| structure no.: | 078001.3 | city/town: | 3.7 miles northwest of Pleasant Hill |
| county: | Cass | feature inters.: | Middle Big Creek |
| | | cadastral grid: | S22, T46N, R31W |
| | | highway route: | County Road 78 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|------------------------|
| superstructure: | steel, 5-panel, pin-connected Pratt pony truss, with steel stringer approach spans | | |
| substructure: | concrete abutments and wingwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 80.0' | alterations: | unknown |
| total length: | 116.0' | floor/decking : | timber deck |
| roadway width: | 12.8' | other features: | steel angle guardrails |

HISTORICAL DATA

| | |
|----------------|---|
| erection date: | c1910 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor: | unknown |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 078001.3. |
| sign. rating: | 30 |
| evaluation: | NRHP non-eligible (typically configured, inadequately documented example of common structural type) |

Inventoried by: Mark Hufstetler 27 August 1992

Duncan Creek Bridge

CASS07

GENERAL DATA

| | | | |
|----------------|----------|------------------|--------------------------------------|
| structure no.: | 109000.0 | city/town: | 2.4 miles southeast of Pleasant Hill |
| county: | Cass | feature inters.: | Duncan Creek |
| | | cadastral grid: | S28, T46N, R30W |
| | | highway route: | County Road 109 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

superstructure: steel, 3-panel, pin-connected Pratt half-hip pony truss
substructure: unknown

| | | | |
|----------------|-------|-----------------|-------------------|
| span number: | 1 | condition: | fair |
| span length: | 65.0' | alterations: | unknown |
| total length: | 66.0' | floor/decking : | timber deck |
| roadway width: | 14.0' | other features: | timber guardrails |

HISTORICAL DATA

erection date: c1910
erection cost: unknown
designer: unknown
fabricator : unknown
contractor: unknown

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 109000.0.

sign. rating: 28
evaluation: NRHP non-eligible (typically configured, inadequately documented example of common structural type)

inventoried by: Mark Hufstetler 27 August 1992

Big Creek Bridge

CASS08

GENERAL DATA

| | | | |
|----------------|----------|------------------|--------------------------------------|
| structure no.: | 112000.4 | city/town: | 3.0 miles southeast of Pleasant Hill |
| county: | Cass | feature inters.: | Big Creek |
| | | cadastral grid: | S33/34, T46N, R30W |
| | | highway route: | County Road 112 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

superstructure: steel, 4-panel, pin-connected Pratt pony truss
substructure: unknown

| | | | |
|----------------|-------|-----------------|-------------------|
| span number: | 1 | condition: | fair |
| span length: | 60.0' | alterations: | unknown |
| total length: | 60.0' | floor/decking : | timber deck |
| roadway width: | 12.0' | other features: | timber guardrails |

HISTORICAL DATA

erection date: c1910
erection cost: unknown
designer: unknown
fabricator : unknown
contractor: unknown

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 112000.4.

sign. rating: 28
evaluation: NRHP non-eligible (typically configured, inadequately documented example of common structural type)

Inventoried by: Mark Hufstetler 27 August 1992

Camp Creek Bridge

CASS09

GENERAL DATA

| | | | |
|----------------|----------|------------------|--------------------------------------|
| structure no.: | 117000.5 | city/town: | 4.9 miles northeast of Harrisonville |
| county: | Cass | feature inters.: | Camp Creek |
| | | cadastral grid: | S18/19, T45N, R30W |
| | | highway route: | County Road 117 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|------------------------------------|
| superstructure: | steel, 4-panel, pin-connected Pratt pony truss | | |
| substructure: | unknown | | |
| span number: | 1 | condition: | fair |
| span length: | 55.0' | alterations: | unknown |
| total length: | 55.0' | floor/decking : | concrete deck over steel stringers |
| roadway width: | 14.0' | other features: | steel angle guardrails |

HISTORICAL DATA

| | |
|----------------|---|
| erection date: | c1915 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor: | unknown |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 117000.5. |
| sign. rating: | 25 |
| evaluation: | NRHP non-eligible (typically configured, inadequately documented example of common structural type) |

Inventoried by: Mark Hufstetler 27 August 1992

Templeton Bridge

CASS12

GENERAL DATA

| | | | |
|----------------|----------|------------------|----------------------------|
| structure no.: | 140000.6 | city/town: | 0.8 mile east of Strasburg |
| county: | Cass | feature inters.: | East Creek |
| | | cadastral grid: | S29, T46N, R29W |
| | | highway route: | County Road 140 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|------------------------|
| superstructure: | steel, 3-panel, pin-connected Pratt truss-leg bedstead, with steel stringer approach spans | | |
| substructure: | steel truss-leg piers | | |
| span number: | 1 | condition: | fair |
| span length: | 40.0' | alterations: | unknown |
| total length: | 58.0' | floor/decking : | timber deck |
| roadway width: | 14.1' | other features: | steel angle guardrails |

HISTORICAL DATA

| | |
|----------------|--|
| erection date: | 1905 |
| erection cost: | \$270.00 (erection cost) |
| designer: | unknown |
| fabricator : | unknown |
| contractor: | George Bird, Harrisonville MO (probable) |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 140000.6; Cass County Court Record, Book S: page 175 (5 May 1905) - located at the Cass County Courthouse, Harrisonville MO. |
| sign. rating: | 37 |
| evaluation: | NRHP non-eligible (typical, small-scale example of common structural type) |

inventoried by: Mark Hufstetler 27 August 1992

Crawford Creek Bridge

CASS14

GENERAL DATA

| | | | |
|----------------|----------|------------------|----------------------------------|
| structure no.: | 149001.1 | city/town: | 2.0 miles southeast of Strasburg |
| county: | Cass | feature inters.: | Crawford Creek |
| | | cadastral grid: | S5, T45N, R29W |
| | | highway route: | County Road 149 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

superstructure: steel, 4-panel, pin-connected Pratt pony truss
substructure: concrete abutments and wingwalls

| | | | |
|----------------|-------|-----------------|-------------------|
| span number: | 1 | condition: | fair |
| span length: | 55.0' | alterations: | unknown |
| total length: | 56.0' | floor/decking : | timber deck |
| roadway width: | 12.0' | other features: | timber guardrails |

HISTORICAL DATA

erection date: c1890
erection cost: unknown
designer: Kansas City Bridge and Iron Company, Kansas City MO
fabricator : Kansas City Bridge and Iron Company, Kansas City MO
contractor : Kansas City Bridge and Iron Company, Kansas City MO

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 149001.1.

sign. rating: 35
evaluation: NRHP non-eligible (typically configured, inadequately documented example of common structural type)

Inventoried by: Mark Hufstetler 27 August 1992

Crawford Creek Bridge

CASS16

GENERAL DATA

| | | | |
|----------------|----------|------------------|----------------------------------|
| structure no.: | 162001.2 | city/town: | 3.0 miles southeast of Strasburg |
| county: | Cass | feature inters.: | Crawford Creek |
| | | cadastral grid: | S8, T45N, R29W |
| | | highway route: | County Road 162 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|----------------------------------|
| superstructure: | steel, 3-panel, pin-connected Pratt truss-leg bedstead | | |
| substructure: | steel truss-leg abutments with timber backwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 45.0' | alterations: | unknown |
| total length: | 48.0' | floor/decking : | timber deck over steel stringers |
| roadway width: | 14.0' | other features: | unknown |

HISTORICAL DATA

| | |
|----------------|---|
| erection date: | c1900 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor: | S.B. Coutts, Harrisonville MO |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 162001.2. |
| sign. rating: | 32 |
| evaluation: | NRHP non-eligible (typical example of common structural type) |

Inventoried by: Mark Hufstetler 27 August 1992

Crawford Creek Bridge

CASS17

GENERAL DATA

| | | | |
|----------------|----------|------------------|------------------------------|
| structure no.: | 165000.0 | city/town: | 2.4 miles north of Gunn City |
| county: | Cass | feature inters.: | Crawford Creek |
| | | cadastral grid: | S17/20, T45N, R29W |
| | | highway route: | County Road 165 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

superstructure: steel, 4-panel, pin-connected Pratt half-hip pony truss
substructure: concrete abutments and wingwalls

| | | | |
|----------------|-------|-----------------|------------------------|
| span number: | 1 | condition: | fair |
| span length: | 60.0' | alterations: | unknown |
| total length: | 60.0' | floor/decking : | timber deck |
| roadway width: | 13.8' | other features: | steel angle guardrails |

HISTORICAL DATA

erection date: 1910
erection cost: \$1450.00
designer: Canton Bridge Company, Canton OH
fabricator : Canton Bridge Company, Canton OH
contractor: Canton Bridge Company, Canton OH

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 165000.0; Cass County Court Record, Book U: page 101 (8 October 1910) -located at the Cass County Court-house, Harrisonville MO.

sign. rating: 40
evaluation: NRHP non-eligible (typically configured example of common structural type)

inventoried by: Mark Hufstetler 27 August 1992

Massey Creek Bridge

CASS18

GENERAL DATA

| | | | |
|----------------|----------|------------------|----------------------------------|
| structure no.: | 170004.1 | city/town: | 1.2 miles northeast of Cleveland |
| county: | Cass | feature inters.: | Massey Creek |
| | | cadastral grid: | S27/28, T45N, R33W |
| | | highway route: | County Road 170 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

superstructure: steel, 4-panel, pin-connected Pratt pony truss, with steel stringer approach spans

substructure: concrete abutments, wingwalls and piers

| | | | |
|----------------|-------|-----------------|------------------------|
| span number: | 1 | condition: | fair |
| span length: | 55.0' | alterations: | unknown |
| total length: | 81.0' | floor/decking : | timber deck |
| roadway width: | 13.8' | other features: | steel angle guardrails |

HISTORICAL DATA

erection date: c1910

erection cost: unknown

designer: unknown

fabricator : unknown

contractor: unknown

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 170004.1.

sign. rating: 25

evaluation: NRHP non-eligible (typical example of common structural type)

Inventoried by: Mark Hufstetler 27 August 1992

Town Creek Bridge

CASS19

GENERAL DATA

| | | | |
|----------------|----------|------------------|-----------------|
| structure no.: | 187000.2 | city/town: | Harrisonville |
| county: | Cass | feature inters.: | Town Creek |
| | | cadastral grid: | S28, T45N, R31W |
| | | highway route: | County Road 187 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

superstructure: steel, 2-panel, pin-connected Pratt half-hip pony truss
substructure: concrete abutments and wingwalls

| | | | |
|----------------|-------|-----------------|-------------------|
| span number: | 1 | condition: | fair |
| span length: | 25.0' | alterations: | unknown |
| total length: | 26.0' | floor/decking : | timber deck |
| roadway width: | 12.0' | other features: | timber guardrails |

HISTORICAL DATA

erection date: c1910
erection cost: unknown
designer: unknown
fabricator : unknown
contractor: unknown

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 187000.2.

sign. rating: 20
evaluation: NRHP non-eligible (typical, small-scale example of common structural type)

inventoried by: Mark Hufstetler 27 August 1992

Massey Creek Bridge

CASS20

GENERAL DATA

| | | | |
|----------------|----------|------------------|----------------------------------|
| structure no.: | 191000.2 | city/town: | 1.2 miles southeast of Cleveland |
| county: | Cass | feature inters.: | Branch of Massey Creek |
| | | cadastral grid: | S33/34, T45N, R33W |
| | | highway route: | County Road 191 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|---|-----------------|----------------------------------|
| superstructure: | steel, 4-panel, pin-connected Pratt half-hip pony truss | | |
| substructure: | unknown | | |
| span number: | 1 | condition: | fair |
| span length: | 75.0' | alterations: | unknown |
| total length: | 75.0' | floor/decking : | timber deck over steel stringers |
| roadway width: | 14.0' | other features: | steel angle guardrails |

HISTORICAL DATA

| | |
|----------------|---|
| erection date: | 1910 |
| erection cost: | \$1293.00 |
| designer: | Western Bridge Company, Harrisonville MO |
| fabricator : | Western Bridge Company, Harrisonville MO |
| contractor: | Western Bridge Company, Harrisonville MO |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 191000.2; Cass County Court Record, Book U: page 101 (8 October 1910) -located at the Cass County Courthouse, Harrisonville MO. |
| sign. rating: | 38 |
| evaluation: | NRHP non-eligible (typical example of common structural type) |

Inventoried by: Mark Hufstetler 27 August 1992

Massey Creek Bridge

CASS22

GENERAL DATA

| | | | |
|----------------|----------|------------------|----------------------------------|
| structure no.: | 194000.4 | city/town: | 3.7 miles northeast of Cleveland |
| county: | Cass | feature inters.: | Massey Creek |
| | | cadastral grid: | S25, T45N, R33W |
| | | highway route: | County Road 194 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|---|-----------------|--|
| superstructure: | steel, 6-panel, pin-connected Pratt through truss, with steel stringer approach spans | | |
| substructure: | stone masonry abutments, wingwalls and piers | | |
| span number: | 1 | condition: | fair |
| span length: | 85.0' | alterations: | unknown |
| total length: | 143.0' | floor/decking : | timber deck over steel stringers |
| roadway width: | 14.0' | other features: | upper chord and inclined end post: 2 channels with cover plate and lacing; lower chord: 2 punched rectangular eyebars; vertical: I-beam; diagonal: 2 punched rectangular eyebars; counter: round rod with turnbuckle; lateral bracing: round rod with threaded ends; strut: 4 angles with double lacing; floor beam: I-beam, U-bolted to lower chord pins; guardrail: timber |

HISTORICAL DATA

| | |
|----------------|---------|
| erection date: | c1890 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor: | unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 194000.4; field inspection by Mark Hufstetler, 10 February 1991.

| | |
|---------------|---|
| sign. rating: | 34 |
| evaluation: | NRHP non-eligible (well-preserved, early example of mainstay structural type, lacking definitive documentation) |

inventoried by: Mark Hufstetler 27 August 1992

Lusher Bridge

CASS23

GENERAL DATA

| | | | |
|----------------|----------|------------------|--------------------------------|
| structure no.: | 213000.6 | city/town: | 4.6 miles southwest of Freeman |
| county: | Cass | feature inters.: | Harless Creek |
| | | cadastral grid: | S29, T44N, R33W |
| | | highway route: | County Road 213 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

superstructure: steel, 3-panel, pin-connected Pratt pony truss
substructure: concrete abutments and wingwalls

| | | | |
|----------------|-------|-----------------|------------------------|
| span number: | 1 | condition: | fair |
| span length: | 40.0' | alterations: | unknown |
| total length: | 40.0' | floor/decking : | timber deck |
| roadway width: | 12.0' | other features: | steel angle guardrails |

HISTORICAL DATA

erection date: 1911
erection cost: \$585.00
designer: Western Bridge Company, Harrisonville MO
fabricator : Western Bridge Company, Harrisonville MO
contractor: Western Bridge Company, Harrisonville MO

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 213000.6; Cass County Court Record, Book U: page 117 (9 November 1910), page 173 (3 January 1911) - located at the Cass County Courthouse, Harrisonville MO.

sign. rating: 35
evaluation: NRHP non-eligible (typical example of common structural type)

inventoried by: Mark Hufstetler 27 August 1992

Coldwater Creek Bridge

CASS24

GENERAL DATA

| | | | |
|----------------|----------|------------------|--------------------------------|
| structure no.: | 217000.1 | city/town: | 4.3 miles southwest of Freeman |
| county: | Cass | feature inters.: | Coldwater Creek |
| | | cadastral grid: | S34, T44N, R33W |
| | | highway route: | County Road 217 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

superstructure: steel, 3-panel, pin-connected Pratt bedstead
substructure: concrete abutments and wingwalls

| | | | |
|----------------|-------|-----------------|-------------------|
| span number: | 1 | condition: | fair |
| span length: | 55.0' | alterations: | unknown |
| total length: | 80.0' | floor/decking : | timber deck |
| roadway width: | 14.0' | other features: | timber guardrails |

HISTORICAL DATA

erection date: c1910
erection cost: unknown
designer: unknown
fabricator : unknown
contractor : unknown

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 217000.1.

sign. rating: 25
evaluation: NRHP non-eligible (typically configured, inadequately documented example of common structural type)

Inventoried by: Mark Hufstetler 27 August 1992

Wolf Creek Bridge

CASS25

GENERAL DATA

| | | | |
|----------------|----------|------------------|--------------------------------------|
| structure no.: | 230001.7 | city/town: | 6.4 miles northwest of Harrisonville |
| county: | Cass | feature inters.: | Wolf Creek |
| | | cadastral grid: | S12, T45N, R32W |
| | | highway route: | County Road 230 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|---|-----------------|------------------------------------|
| superstructure: | steel, 3-panel, pin-connected Pratt half-hip pony truss | | |
| substructure: | concrete abutments and wingwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 50.0' | alterations: | unknown |
| total length: | 52.0' | floor/decking : | concrete deck over steel stringers |
| roadway width: | 14.0' | other features: | steel angle guardrails |

HISTORICAL DATA

| | |
|----------------|---------|
| erection date: | c1915 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor: | unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 230001.7.

| | |
|---------------|---|
| sign. rating: | 25 |
| evaluation: | NRHP non-eligible (typically configured, inadequately documented example of common structural type) |

inventoried by: Mark Hufstetler 27 August 1992

Wolf Creek Bridge

CASS26

GENERAL DATA

| | | | |
|----------------|----------|------------------|--------------------------------------|
| structure no.: | 265000.8 | city/town: | 3.0 miles northwest of Harrisonville |
| county: | Cass | feature inters.: | Wolf Creek |
| | | cadastral grid: | S31, T45N, R31W |
| | | highway route: | County Road 265 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|---|-----------------|------------------------|
| superstructure: | steel, 3-panel, pin-connected Pratt truss-leg bedstead, with timber stringer approach spans | | |
| substructure: | steel truss-leg piers | | |
| span number: | 1 | condition: | fair |
| span length: | 40.0' | alterations: | unknown |
| total length: | 56.0' | floor/decking : | timber deck |
| roadway width: | 14.0' | other features: | steel angle guardrails |

HISTORICAL DATA

| | |
|----------------|---------|
| erection date: | c1910 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor : | unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 265000.8.

| | |
|---------------|---|
| sign. rating: | 25 |
| evaluation: | NRHP non-eligible (typically configured, inadequately documented example of common structural type) |

Inventoried by: Mark Hufstetler 27 August 1992

Grand River Bridge

CASS28

GENERAL DATA

| | | | |
|----------------|----------|------------------|---------------------------|
| structure no.: | 299000.3 | city/town: | 0.9 mile north of Freeman |
| county: | Cass | feature inters.: | Massey Creek |
| | | cadastral grid: | S12, T44N, R33W |
| | | highway route: | County Road 299 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

superstructure: wrought iron, 9-panel bowstring pony arch-truss
substructure: stone abutments and wingwalls

| | | | |
|----------------|-------|-----------------|---|
| span number: | 1 | condition: | fair |
| span length: | 98.0' | alterations: | deck and floor structure replaced |
| total length: | 98.0' | floor/decking : | timber deck over steel stringers |
| roadway width: | 13.7' | other features: | arch rib: box girder comprised of two channels with top and bottom cover plates; lower chord: 2 rectangular eyebars; vertical: 2 round rods, threaded into cast iron skewback; diagonal: round rod, threaded into cast iron skewback; lateral bracing: round rod with turnbuckle; floor beam: I-beam, clamped to lower chord; guardrail: timber |

HISTORICAL DATA

erection date: c1875
erection cost: unknown
designer: Missouri Valley Bridge and Iron Company, Leavenworth KS (probable)
fabricator : Missouri Valley Bridge and Iron Company, Leavenworth KS (probable)
contractor: Missouri Valley Bridge and Iron Company, Leavenworth KS (probable)

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 299000.3; field inspection by Mark Hufstetler, 10 February 1991.

sign. rating: 81
evaluation: NRHP eligible (one of the last examples in Missouri of earliest mass-produced iron bridge type)

Inventoried by: Mark Hufstetler 27 August 1992

Price and Colburn Bridge

CASS29

GENERAL DATA

| | | | |
|----------------|----------|------------------|-----------------|
| structure no.: | 300000.6 | city/town: | Freeman |
| county: | Cass | feature inters.: | Massey Creek |
| | | cadastral grid: | S7, T44N, R32W |
| | | highway route: | County Road 300 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|------------------------|
| superstructure: | steel, 5-panel, pin-connected Pratt pony truss, with steel stringer approach spans | | |
| substructure: | concrete-filled steel cylinder piers | | |
| span number: | 1 | condition: | fair |
| span length: | 80.0' | alterations: | unknown |
| total length: | 142.0' | floor/decking : | timber deck |
| roadway width: | 14.0' | other features: | steel angle guardrails |

HISTORICAL DATA

| | |
|----------------|-------------------------------|
| erection date: | 1910 |
| erection cost: | \$2300.00 |
| designer: | unknown |
| fabricator : | unknown |
| contractor: | George Bird, Harrisonville MO |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 300000.6; Cass County Court Record, Book S: page 563 (7 March 1910), page 589 (7 April 1910); Book U: page 21 (6 July 1910) - located at the Cass County Courthouse, Harrisonville MO.

| | |
|---------------|---|
| sign. rating: | 40 |
| evaluation: | NRHP non-eligible (typical example of common structural type) |

Inventoried by: Mark Hufstetler 27 August 1992

East Branch Bridge

CASS31

GENERAL DATA

| | | | |
|----------------|----------|------------------|--------------------------------------|
| structure no.: | 329001.3 | city/town: | 2.9 miles northwest of Harrisonville |
| county: | Cass | feature inters.: | East Branch |
| | | cadastral grid: | S1, T44N, R32W |
| | | highway route: | County Road 329 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

superstructure: steel, 4-panel, pin-connected Pratt half-hip pony truss
substructure: unknown

| | | | |
|----------------|-------|-----------------|------------------------|
| span number: | 1 | condition: | fair |
| span length: | 70.0' | alterations: | unknown |
| total length: | 71.0' | floor/decking : | timber deck |
| roadway width: | 13.8' | other features: | steel angle guardrails |

HISTORICAL DATA

erection date: c1910
erection cost: unknown
designer: unknown
fabricator : unknown
contractor: unknown

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 329001.3.

sign. rating: 28
evaluation: NRHP non-eligible (typically configured, inadequately documented example of common structural type)

Inventoried by: Mark Hufstetler 27 August 1992

Russell Bridge

CASS32

GENERAL DATA

| | | | |
|----------------|----------|------------------|--------------------------------------|
| structure no.: | 338000.7 | city/town: | 3.5 miles southeast of Harrisonville |
| county: | Cass | feature inters.: | Eight Mile Creek |
| | | cadastral grid: | S1/12, T44N, R30/31W |
| | | highway route: | County Road 338 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|---|-----------------|--|
| superstructure: | steel, pin-connected kingpost pony truss | | |
| substructure: | steel pile bent abutments with timber back- and wingwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 24.0' | alterations: | unknown |
| total length: | 24.0' | floor/decking : | timber deck over steel stringers |
| roadway width: | 14.0' | other features: | inclined end post: 2 channels with cover and batten plates; lower chord: 2 looped rectangular eyebars; vertical: 4 angles with lacing; lateral bracing: round rod with threaded ends; floor beam: I-beam, field-bolted to vertical |

HISTORICAL DATA

| | |
|----------------|---|
| erection date: | 1905 |
| erection cost: | \$417.00 |
| designer: | unknown |
| fabricator : | unknown |
| contractor: | George Bird, Harrisonville MO |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 338000.7; Cass County Court Record, Book S: page 175 (5 May 1905) - located at the Cass County Courthouse, Harrisonville MO; field inspection by Lon Johnson, 10 February 1991. |
| sign. rating: | 48 |
| evaluation: | NRHP potentially eligible (now-rare example of what was once a ubiquitous structural type) |

inventoried by: Mark Hufstetler 27 August 1992

Eight Mile Creek Bridge

CASS33

GENERAL DATA

| | | | |
|----------------|----------|------------------|--------------------------------------|
| structure no.: | 342001.4 | city/town: | 4.0 miles southeast of Harrisonville |
| county: | Cass | feature inters.: | Eight Mile Creek |
| | | cadastral grid: | S7/12, T44N, R30/31W |
| | | highway route: | County Road 342 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|----------------------------------|
| superstructure: | steel, 2-panel, pin-connected Pratt truss-leg bedstead, with steel stringer approach spans | | |
| substructure: | steel truss-leg piers | | |
| span number: | 1 | condition: | fair |
| span length: | 34.0' | alterations: | unknown |
| total length: | 62.0' | floor/decking : | timber deck over steel stringers |
| roadway width: | 12.0' | other features: | timber guardrails |

HISTORICAL DATA

| | |
|----------------|---|
| erection date: | c1905 |
| erection cost: | unknown |
| designer: | Western Bridge Company, Harrisonville MO |
| fabricator : | Western Bridge Company, Harrisonville MO |
| contractor: | Western Bridge Company, Harrisonville MO |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 342001.4. |
| sign. rating: | 32 |
| evaluation: | NRHP non-eligible (typical example of common structural type, partially documented) |

inventoried by: Mark Hufstetler 27 August 1992

East Fork Bridge

CASS34

GENERAL DATA

| | | | |
|----------------|----------|------------------|--------------------------------------|
| structure no.: | 347000.5 | city/town: | 3.0 miles southwest of Harrisonville |
| county: | Cass | feature inters.: | East Fork of the Grand River |
| | | cadastral grid: | S7, T44N, R31W |
| | | highway route: | County Road 347 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|------------------------------------|
| superstructure: | steel, 4-panel, pin-connected Pratt pony truss, with steel stringer approach spans | | |
| substructure: | unknown | | |
| span number: | 1 | condition: | fair |
| span length: | 70.0' | alterations: | none |
| total length: | 91.0' | floor/decking : | concrete deck over steel stringers |
| roadway width: | 13.8' | other features: | steel angle guardrails |

HISTORICAL DATA

| | |
|----------------|---------|
| erection date: | c1910 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor : | unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 347000.5.

| | |
|---------------|---|
| sign. rating: | 28 |
| evaluation: | NRHP non-eligible (typically configured, inadequately documented example of common structural type) |

inventoried by: Mark Hufstetler 27 August 1992

East Fork Bridge

CASS35

GENERAL DATA

| | | | |
|----------------|----------|------------------|----------------------------------|
| structure no.: | 361000.6 | city/town: | 6.0 miles south of Harrisonville |
| county: | Cass | feature inters.: | East Fork of the Grand River |
| | | cadastral grid: | S31, T44N, R31W |
| | | highway route: | County Road 361 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|---|-----------------|--|
| superstructure: | wrought iron, 5-panel, pin-connected Pratt through truss, with 2 timber stringer approach spans | | |
| substructure: | concrete-filled iron cylinder piers; timber pile bent piers and abutments at approach spans | | |
| span number: | 1 | condition: | fair |
| span length: | 70.0' | alterations: | heavy portal strut damage on both ends |
| total length: | 104.0' | floor/decking : | timber deck over timber stringers |
| roadway width: | 14.0' | other features: | upper chord and inclined end post: 2 channels with cover plate and lacing; lower chord: 2 punched eyebars; vertical: 2 channels with lacing; diagonal: 2 punched rectangular eye-bars; counter: round eyerod with turnbuckle; lateral bracing: round rod with threaded ends; strut: I-beam; floor beam: riveted plate girder, U-bolted to lower chord pins; guardrail: twisted cable |

HISTORICAL DATA

| | |
|----------------|--|
| erection date: | c1890 |
| erection cost: | unknown |
| designer: | Kansas City Bridge and Iron Company, Kansas City MO |
| fabricator : | Kansas City Bridge and Iron Company, Kansas City MO |
| contractor: | Kansas City Bridge and Iron Company, Kansas City MO |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 361000.6; field inspection by Mark Hufstetler, 10 February 1992. |
| sign. rating: | 37 |
| evaluation: | NRHP non-eligible (poorly preserved, typically configured early example of mainstay structural type) |

Inventoried by: Mark Hufstetler 27 August 1992

Prewitt Bridge

CASS36

GENERAL DATA

| | | | |
|----------------|----------|------------------|----------------------------------|
| structure no.: | 364000.4 | city/town: | 4.2 miles south of Harrisonville |
| county: | Cass | feature inters.: | East Fork of the Grand River |
| | | cadastral grid: | S20, T44N, R31W |
| | | highway route: | County Road 364 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|--|
| superstructure: | steel, pin-connected kingpost pony truss | | |
| substructure: | steel pile bent abutments and timber back- and wingwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 32.0' | alterations: | floor beam replaced and outriders added |
| total length: | 32.0' | floor/decking : | timber deck over timber stringers |
| roadway width: | 13.8' | other features: | inclined end post: 2 channels with cover and batten plates; lower chord: 2 looped rectangular eyebars; vertical: 4 angles with lacing; lateral bracing: round rod with threaded ends; floor beam: I-beam, field-bolted to verticals; guardrail: timber |

HISTORICAL DATA

| | |
|----------------|---|
| erection date: | 1905 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | Cambria Steel Company, Pittsburgh PA |
| contractor : | George Bird, Harrisonville MO |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 364000.4; Cass County Court Record, Book S: page 175 (5 May 1905) - located at the Cass County Courthouse, Harrisonville MO; field inspection by Mark Hufstetler, 10 February 1991. |
| sign. rating: | 46 |
| evaluation: | NRHP possibly eligible (now-rare example of what was once a ubiquitous structural type, altered) |

inventoried by: Mark Hufstetler 27 August 1992

Eight Mile Creek Bridge

CASS38

GENERAL DATA

| | | | |
|----------------|----------|------------------|--------------------------------------|
| structure no.: | 382000.8 | city/town: | 6.5 miles southeast of Harrisonville |
| county: | Cass | feature inters.: | Eight Mile Creek |
| | | cadastral grid: | S25, T44N, R30W |
| | | highway route: | County Road 382 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|----------------------------------|
| superstructure: | steel, 3-panel, pin-connected Pratt pony truss | | |
| substructure: | unknown | | |
| span number: | 1 | condition: | fair |
| span length: | 50.0' | alterations: | unknown |
| total length: | 52.0' | floor/decking : | timber deck over steel stringers |
| roadway width: | 14.0' | other features: | timber guardrails |

HISTORICAL DATA

| | |
|----------------|--|
| erection date: | 1918 |
| erection cost: | unknown |
| designer: | Western Bridge Company, Harrisonville MO |
| fabricator : | Western Bridge Company, Harrisonville MO |
| contractor: | Western Bridge Company, Harrisonville MO |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 382000.8; Cass County Court Record, Book X: page 130 (8 August 1917), page 261 (18 February 1918) - located at Cass County Courthouse, Harrisonville MO. |
| sign. rating: | 35 |
| evaluation: | NRHP non-eligible (typically configured, rather late example of common structural type) |

Inventoried by: Mark Hufstetler 27 August 1992

Camp Creek Bridge

CASS40

GENERAL DATA

| | | | |
|----------------|----------|------------------|-----------------------------------|
| structure no.: | 386000.3 | city/town: | 2.6 miles northwest of East Lynne |
| county: | Cass | feature inters.: | Camp Creek |
| | | cadastral grid: | S20/29, T45N, R30W |
| | | highway route: | County Road 386 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|-------------------|
| superstructure: | steel, 3-panel, pin-connected Pratt truss-leg bedstead, with steel stringer approach spans | | |
| substructure: | steel truss-leg piers | | |
| span number: | 1 | condition: | fair |
| span length: | 40.0' | alterations: | unknown |
| total length: | 51.0' | floor/decking : | timber deck |
| roadway width: | 14.1' | other features: | timber guardrails |

HISTORICAL DATA

| | |
|----------------|---------|
| erection date: | c1905 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor: | unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 386000.3.

| | |
|---------------|---|
| sign. rating: | 25 |
| evaluation: | NRHP non-eligible (typically configured, inadequately documented example of common structural type) |

inventoried by: Mark Hufstetler 27 August 1992

Camp Creek Bridge

CASS42

GENERAL DATA

| | | | |
|----------------|----------|------------------|-----------------------------------|
| structure no.: | 393001.7 | city/town: | 1.7 miles northwest of East Lynne |
| county: | Cass | feature inters.: | Camp Creek |
| | | cadastral grid: | S28/29, T45N, R30W |
| | | highway route: | County Road 393 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|---|-----------------|------------------------------------|
| superstructure: | steel, 3-panel, pin-connected Pratt half-hip pony truss | | |
| substructure: | concrete abutments and wingwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 48.0' | alterations: | unknown |
| total length: | 48.0' | floor/decking : | concrete deck over steel stringers |
| roadway width: | 14.0' | other features: | steel angle guardrails |

HISTORICAL DATA

| | |
|----------------|---|
| erection date: | 1912 |
| erection cost: | unknown |
| designer: | Canton Bridge Company, Canton OH |
| fabricator : | Canton Bridge Company, Canton OH |
| contractor : | Canton Bridge Company, Canton OH |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 393001.7; Cass County Court Record, Book U: page 90 (3 October 1910), page 101 (8 October 1910), page 590 (3 August 1912), page 612 (10 August 1912) - located at the Cass County Courthouse, Harrisonville MO. |
| sign. rating: | 37 |
| evaluation: | NRHP non-eligible (typically configured example of common structural type) |

Inventoried by: Mark Hufstetler 27 August 1992

Crooked Creek Bridge

CASS43

GENERAL DATA

| | | | |
|----------------|----------|------------------|------------------------------|
| structure no.: | 394001.0 | city/town: | 2.5 miles west of East Lynne |
| county: | Cass | feature inters.: | Crooked Creek |
| | | cadastral grid: | S31/32, T45N, R30W |
| | | highway route: | County Road 394 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

superstructure: steel, 3-panel, pin-connected Pratt truss-leg bedstead
substructure: steel truss-leg piers

| | | | |
|----------------|-------|-----------------|-------------------|
| span number: | 1 | condition: | fair |
| span length: | 40.0' | alterations: | unknown |
| total length: | 58.0' | floor/decking : | timber deck |
| roadway width: | 14.0' | other features: | timber guardrails |

HISTORICAL DATA

erection date: c1905
erection cost: unknown
designer: unknown
fabricator : unknown
contractor: unknown

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 394001.0.

sign. rating: 26
evaluation: NRHP non-eligible (typically configured, inadequately documented example of common truss type)

inventoried by: Mark Hufstetler 27 August 1992

Camp Creek Bridge

CASS45

GENERAL DATA

| | | | |
|----------------|----------|------------------|-----------------------------|
| structure no.: | 407000.4 | city/town: | 1.0 mile east of East Lynne |
| county: | Cass | feature inters.: | Camp Creek |
| | | cadastral grid: | S26/35, T45N, R30W |
| | | highway route: | County Road 407 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|------------------------------------|
| superstructure: | steel, 5-panel, pin-connected Pratt pony truss | | |
| substructure: | unknown | | |
| span number: | 1 | condition: | fair |
| span length: | 68.0' | alterations: | unknown |
| total length: | 69.0' | floor/decking : | concrete deck over steel stringers |
| roadway width: | 14.0' | other features: | steel angle guardrails |

HISTORICAL DATA

| | |
|----------------|---|
| erection date: | c1915 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor: | unknown |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 407000.4. |
| sign. rating: | 28 |
| evaluation: | NRHP non-eligible (typically configured, inadequately documented example of common truss type) |

Inventoried by: Mark Hufstetler 27 August 1992

Big Creek Bridge

CASS48

GENERAL DATA

| | | | |
|----------------|----------|------------------|-----------------------------------|
| structure no.: | 450000.5 | city/town: | 4.3 miles northeast of East Lynne |
| county: | Cass | feature inters.: | Big Creek |
| | | cadastral grid: | S20, T45N, R29W |
| | | highway route: | County Road 450 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|----------------------------------|
| superstructure: | steel, 3-panel, pin-connected Pratt truss-leg bedstead | | |
| substructure: | steel truss-leg piers | | |
| span number: | 1 | condition: | fair |
| span length: | 50.0' | alterations: | none |
| total length: | 77.0' | floor/decking : | timber deck over steel stringers |
| roadway width: | 14.0' | other features: | unknown |

HISTORICAL DATA

| | |
|----------------|---|
| erection date: | c1905 |
| erection cost: | unknown |
| designer: | S.B. Coutts, Harrisonville MO |
| fabricator : | S.B. Coutts, Harrisonville MO |
| contractor: | Western Bridge Company, Harrisonville MO (probable) |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 450000.5. |
| sign. rating: | 35 |
| evaluation: | NRHP non-eligible (typically configured, early example of common structural type) |

Inventoried by: Mark Hufstetler 27 August 1992

Panther Creek Bridge

CASS49

GENERAL DATA

| | | | |
|----------------|----------|------------------|------------------------------------|
| structure no.: | 470001.4 | city/town: | 4.6 miles northeast of Garden City |
| county: | Cass | feature inters.: | Panther Creek |
| | | cadastral grid: | S16, T44N, R29W |
| | | highway route: | County Road 470 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|---|-----------------|-------------------|
| superstructure: | steel, 3-panel, pin-connected Pratt truss-leg bedstead | | |
| substructure: | steel truss-leg abutments with timber back- and wingwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 45.0' | alterations: | unknown |
| total length: | 45.0' | floor/decking : | timber deck |
| roadway width: | 12.0' | other features: | timber guardrails |

HISTORICAL DATA

| | |
|----------------|--|
| erection date: | 1906 |
| erection cost: | unknown |
| designer: | S.B. Coutts, Harrisonville MO |
| fabricator : | S.B. Coutts, Harrisonville MO |
| contractor: | Western Bridge Company, Harrisonville MO |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 470001.4; Cass County Court Record, Book S: page 443 (6 September 1906) - located at Cass County Courthouse, Harrisonville MO. |
| sign. rating: | 37 |
| evaluation: | NRHP non-eligible (typically configured example of common structural type) |

inventoried by: Mark Hufstetler 27 August 1992

Walnut Creek Bridge

CASS50

GENERAL DATA

| | | | |
|----------------|----------|------------------|-------------------------------|
| structure no.: | 480000.2 | city/town: | 4.0 miles east of Garden City |
| county: | Cass | feature inters.: | Walnut Creek |
| | | cadastral grid: | S33/34, T44N, R29W |
| | | highway route: | County Road 480 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|---|-----------------|-------------------|
| superstructure: | steel, 2-panel, pin-connected Pratt truss-leg bedstead | | |
| substructure: | steel truss-leg abutments with timber back- and wingwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 30.0' | alterations: | unknown |
| total length: | 31.0' | floor/decking : | timber deck |
| roadway width: | 14.0' | other features: | timber guardrails |

HISTORICAL DATA

| | |
|----------------|---|
| erection date: | c1905 |
| erection cost: | unknown |
| designer: | S.B. Coutts, Harrisonville MO |
| fabricator : | S.B. Coutts, Harrisonville MO |
| contractor: | Western Bridge Company, Harrisonville MO (probable) |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 480000.2. |
| sign. rating: | 32 |
| evaluation: | NRHP non-eligible (typically configured example of common structural type) |

inventoried by: Mark Hufstetler 27 August 1992

Harding Creek Bridge

CASS52

GENERAL DATA

| | | | |
|----------------|----------|------------------|--------------------------------|
| structure no.: | 488000.2 | city/town: | 4.8 miles southwest of Freeman |
| county: | Cass | feature inters.: | Hardin Creek |
| | | cadastral grid: | S2, T43N, R33W |
| | | highway route: | County Road 488 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|---|-----------------|---|
| superstructure: | steel, 3-panel, pin-connected Pratt truss-leg bedstead | | |
| substructure: | steel pile bent piers; concrete back- and wingwalls on south end; timber back- and wingwalls on north end | | |
| span number: | 1 | condition: | fair |
| span length: | 45.0' | alterations: | substructure partially replaced |
| total length: | 47.0' | floor/decking : | timber deck over steel stringers |
| roadway width: | 14.0' | other features: | upper chord and upright end post: 2 channels with cover plate and lacing; lower chord: 2 rectangular eyebars or 2 angles with batten plates; vertical: 4 angles with lacing; diagonal: 2 rectangular eyebars; lateral bracing: round rod with threaded ends; floor beam: I-beam, field-bolted to verticals; guardrail: timber |

HISTORICAL DATA

| | |
|----------------|--|
| erection date: | 1906 |
| erection cost: | unknown |
| designer: | S.B. Coutts, Harrisonville MO |
| fabricator : | S.B. Coutts, Harrisonville MO; Carnegie Steel Company, Pittsburgh PA |
| contractor: | Western Bridge Company, Harrisonville MO |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 488000.2; field inspection by Mark Hufstetler, 10 February 1991. |
| sign. rating: | 36 |
| evaluation: | NRHP non-eligible (typically configured example of common structural type) |

inventoried by: Mark Hufstetler 27 August 1992

South Fork Bridge

CASS53

GENERAL DATA

| | | | |
|----------------|----------|------------------|--------------------------------|
| structure no.: | 511001.0 | city/town: | 4.9 miles southeast of Freeman |
| county: | Cass | feature inters.: | South Fork of the Grand River |
| | | cadastral grid: | S5, T43N, R32W |
| | | highway route: | County Road 511 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|---|-----------------|--|
| superstructure: | steel, 5-panel, pin-connected Pratt bedstead, with steel stringer approach span | | |
| substructure: | concrete abutments, wingwalls and piers | | |
| span number: | 1 | condition: | fair |
| span length: | 70.0' | alterations: | truss perhaps moved; some web members replaced |
| total length: | 88.0 | | |
| roadway width: | 14.0' | floor/decking : | timber deck over steel stringers |
| | | other features: | upper chord and upright end post: 2 channels with cover plate and lacing, 2 channels with cover and batten plates; lower chord: 2 angles with batten plates, 2 rectangular eyebars; vertical: 4 angles with lacing; diagonal: 2 rectangular eyebars; lateral bracing: round rod with threaded ends; floor beam: I-beam, field-bolted to verticals; guardrail: timber |

HISTORICAL DATA

| | |
|----------------|---------|
| erection date: | c1905 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor: | unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 511001.0; field inspection by Mark Hufstetler, 10 February 1992.

| | |
|---------------|--|
| sign. rating: | 11 |
| evaluation: | NRHP non-eligible (typically configured, long-span example of common structural type, substantially altered) |

Inventoried by: Mark Hufstetler 27 August 1992

Black Creek Bridge

CASS54

GENERAL DATA

| | | | |
|----------------|----------|------------------|--------------------------|
| structure no.: | 530000.2 | city/town: | 4.1 miles west of Archie |
| county: | Cass | feature inters.: | Black Creek |
| | | cadastral grid: | S35, T43N, R32W |
| | | highway route: | County Road 530 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

superstructure: steel, 3-panel, pin-connected Pratt truss-leg bedstead
substructure: steel truss-leg piers

| | | | |
|----------------|-------|-----------------|-------------------|
| span number: | 1 | condition: | fair |
| span length: | 35.0' | alterations: | unknown |
| total length: | 63.0' | floor/decking : | timber deck |
| roadway width: | 12.0' | other features: | timber guardrails |

HISTORICAL DATA

erection date: c1905
erection cost: unknown
designer: unknown
fabricator : unknown
contractor: unknown

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 530000.2.

sign. rating: 26
evaluation: NRHP non-eligible (typically configured, inadequately documented example of common structural type)

inventoried by: Mark Hufstetler 27 August 1992

Grand River Bridge

CASS55

GENERAL DATA

| | | | |
|----------------|----------|------------------|--------------------------------|
| structure no.: | 534002.2 | city/town: | 5.1 miles northwest of Archie |
| county: | Cass | feature inters.: | New Channel of the Grand River |
| | | cadastral grid: | S12, T43N, R32W |
| | | highway route: | County Road 534 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|---|
| superstructure: | wrought iron, 6-panel, pin-connected Pratt through truss, with steel stringer approach spans | | |
| substructure: | concrete spill-through piers under truss; timber pile bent abutments and piers at approaches | | |
| span number: | 1 | condition: | fair |
| span length: | 64.0' | alterations: | truss moved, 1929; one portal strut replaced |
| total length: | 153.0' | floor/decking : | timber deck over timber stringers |
| roadway width: | 13.8' | other features: | upper chord and inclined end post: 2 channels with cover plate and lacing; lower chord: 2 punched rectangular eyebars; vertical: I-beam; diagonal: 2 punched rectangular eyebars; lateral bracing: round rod with threaded ends; strut: I-beam; floor beam: I-beam, U-bolted to lower chord pins; guardrail: timber |

HISTORICAL DATA

| | |
|----------------|--|
| erection date: | 1884 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | Osage Bridge and Iron Works |
| contractor: | unknown |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 534002.2; field inspection by Mark Hufstetler, 10 February 1991. |
| sign. rating: | 33 |
| evaluation: | NRHP non-eligible (poorly preserved, poorly documented example of mainstay structural type, moved from an unknown location) |

Inventoried by: Mark Hufstetler 27 August 1992

App Bridge (Black Creek Bridge)

CASS56

GENERAL DATA

| | | | |
|----------------|----------|------------------|-------------------------------|
| structure no.: | 540000.8 | city/town: | 3.6 miles southwest of Archie |
| county: | Cass | feature inters.: | Black Creek |
| | | cadastral grid: | S35/36, T43N, R32W |
| | | highway route: | County Road 540 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|---|-----------------|--|
| superstructure: | steel, 3-panel, pin-connected Pratt truss-leg bedstead, with steel deck girder approach spans | | |
| substructure: | steel truss-leg piers, with concrete abutments and wingwalls | | |
| span number: | 1 | condition: | poor |
| span length: | 40.0' | alterations: | abutments replaced; original floor system repaired with deep girders |
| total length: | 63.0' | floor/decking : | timber deck over steel girders |
| roadway width: | 14.0' | other features: | upper chord and upright end post: 2 channels with lacing; lower chord: 2 angles with batten plate or 2 rectangular eyebars; vertical: 4 angles with lacing; diagonal: 2 rectangular eyebars; lateral bracing: round rod with threaded ends; floor beam: I-beams, U-bolted to lower chord pins; guardrail: timber |

HISTORICAL DATA

| | |
|----------------|---|
| erection date: | 1897 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | Jones and Laughlin Steel Company, Pittsburgh PA |
| contractor : | Farnsworth and Blodgett, Kansas City MO |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 540000.8; Cass County Court Record, Book U: page 365 (12 August 1911) page 386 (6 September 1911); Book X: page 505 (10 April 1919) - located at the Cass County Courthouse, Harrisonville MO; field inspection by Mark Hufstetler, 10 February 1991. |
| sign. rating: | 37 |
| evaluation: | NRHP non-eligible (early example of mainstay structural type, poorly preserved) |

inventoried by: Mark Hufstetler 27 August 1992

Eight Mile Creek Bridge

CASS58

GENERAL DATA

| | | | |
|----------------|----------|------------------|---------------------------|
| structure no.: | 564000.5 | city/town: | 4.5 miles north of Archie |
| county: | Cass | feature inters.: | Eight Mile Creek |
| | | cadastral grid: | S11, T43N, R31W |
| | | highway route: | County Road 564 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

superstructure: steel, 4-panel, pin-connected Pratt pony truss
substructure: concrete abutments, wingwalls and piers

| | | | |
|----------------|-------|-----------------|-------------------|
| span number: | 1 | condition: | fair |
| span length: | 55.0' | alterations: | unknown |
| total length: | 81.0' | floor/decking : | timber deck |
| roadway width: | 14.0' | other features: | timber guardrails |

HISTORICAL DATA

erection date: c1915
erection cost: unknown
designer: unknown
fabricator : unknown
contractor: unknown

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 564000.5.

sign. rating: 25
evaluation: NRHP non-eligible (typical example of common structural type, poorly documented)

inventoried by: Mark Hufstetler 27 August 1992

Grand River Bridge

CASS59

GENERAL DATA

| | | | |
|----------------|----------|------------------|--------------------------------|
| structure no.: | 577001.5 | city/town: | 3.7 miles southeast of Archie |
| county: | Cass | feature inters.: | Old Channel of the Grand River |
| | | cadastral grid: | S12, T42N, R31W |
| | | highway route: | County Road 577 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|---|-----------------|------------------------------------|
| superstructure: | steel, 5-panel, rigid-connected Warren pony truss | | |
| substructure: | concrete abutments and wingwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 100.0' | alterations: | unknown |
| total length: | 101.0' | floor/decking : | concrete deck over steel stringers |
| roadway width: | 14.3' | other features: | steel angle guardrails |

HISTORICAL DATA

| | |
|----------------|-----------------------------------|
| erection date: | c1930 |
| erection cost: | unknown |
| designer: | Missouri State Highway Department |
| fabricator : | unknown |
| contractor: | unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 577001.5.

sign. rating: 28

evaluation: NRHP non-eligible (typical, long-span example of MSHD truss design of the 1920s and 1930s)

inventoried by: Mark Hufstetler 27 August 1992

Sugar Creek Bridge

CASS60

GENERAL DATA

| | | | |
|----------------|----------|------------------|------------------------------------|
| structure no.: | 587001.2 | city/town: | 4.2 miles southwest of Garden City |
| county: | Cass | feature inters.: | Sugar Creek |
| | | cadastral grid: | S16, T43N, R30W |
| | | highway route: | County Road 587 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|------------------------------------|
| superstructure: | steel, 4-panel, pin-connected Pratt pony truss | | |
| substructure: | unknown | | |
| span number: | 1 | condition: | fair |
| span length: | 60.0' | alterations: | unknown |
| total length: | 61.0' | floor/decking : | concrete deck over steel stringers |
| roadway width: | 14.0' | other features: | steel angle guardrails |

HISTORICAL DATA

| | |
|----------------|---------|
| erection date: | c1915 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor: | unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 587001.2.

| | |
|---------------|---|
| sign. rating: | 28 |
| evaluation: | NRHP non-eligible (typically configured, inadequately documented example of common structural type) |

Inventoried by: Mark Hufstetler 27 August 1992

Joslin Branch Bridge

CASS61

GENERAL DATA

| | | | |
|----------------|----------|------------------|------------------------------------|
| structure no.: | 592001.9 | city/town: | 6.5 miles southwest of Garden City |
| county: | Cass | feature inters.: | Joslin Branch |
| | | cadastral grid: | S2/35, T42/43N, R30W |
| | | highway route: | County Road 592 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|---|
| superstructure: | steel, 3-panel, pin-connected half-hip pony truss, with timber and steel stringer approach spans | | |
| substructure: | timber pile bents abutments; steel pile and concrete piers | | |
| span number: | 1 | condition: | poor |
| span length: | 50.0' | alterations: | substructure largely replaced |
| total length: | 81.0' | floor/decking : | timber deck over timber stringers |
| roadway width: | 14.0' | other features: | upper chord and inclined end post: 2 angles; lower chord: 2 rectangular or 2 square eyebars; vertical: 2 angles with batten plates; diagonal: square eyebar; lateral bracing: round rod with threaded ends; floor beam: riveted plate girder, field-bolted to verticals; guardrail: timber |

HISTORICAL DATA

| | |
|----------------|---------|
| erection date: | c1910 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor: | unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 592001.9; field inspection by Mark Hufstetler, 10 February 1991.

| | |
|---------------|--|
| sign. rating: | 28 |
| evaluation: | NRHP non-eligible (uncommon Pratt truss configuration, poorly preserved and poorly documented) |

inventoried by: Mark Hufstetler 27 August 1992

Lick Creek Bridge

CASS62

GENERAL DATA

| | | | |
|----------------|----------|------------------|-------------------------------|
| structure no.: | 605001.7 | city/town: | 2.2 miles southeast of Dayton |
| county: | Cass | feature inters.: | Lick Creek |
| | | cadastral grid: | S6/31, T42/43N, R29W |
| | | highway route: | County Road 605 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|-------------------|
| superstructure: | steel, 3-panel, pin-connected Pratt bedstead | | |
| substructure: | concrete abutments and wingwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 50.0' | alterations: | unknown |
| total length: | 50.0' | floor/decking : | timber deck |
| roadway width: | 14.1' | other features: | timber guardrails |

HISTORICAL DATA

| | |
|----------------|---|
| erection date: | c1905 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor: | unknown |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 605001.7. |
| sign. rating: | 29 |
| evaluation: | NRHP non-eligible (typically configured, poorly documented example of common structural type) |

inventoried by: Mark Hufstetler 27 August 1992

Lick Creek Bridge

CASS63

GENERAL DATA

| | | | |
|----------------|----------|------------------|-------------------------------|
| structure no.: | 606001.7 | city/town: | 2.6 miles southeast of Dayton |
| county: | Cass | feature inters.: | Lick Creek |
| | | cadastral grid: | S8, T42N, R29W |
| | | highway route: | County Road 606 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

superstructure: steel, 3-panel, pin-connected Pratt bedstead
substructure: concrete abutments and wingwalls

| | | | |
|----------------|-------|-----------------|-------------------|
| span number: | 1 | condition: | fair |
| span length: | 40.0' | alterations: | unknown |
| total length: | 42.0' | floor/decking : | timber deck |
| roadway width: | 14.1' | other features: | timber guardrails |

HISTORICAL DATA

erection date: c1905
erection cost: unknown
designer: unknown
fabricator : unknown
contractor : unknown

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 606001.7.

sign. rating: 26
evaluation: NRHP non-eligible (typically configured, poorly documented example of common structural type)

Inventoried by: Mark Hufstetler 27 August 1992

Massey Creek Bridge

CASS65

GENERAL DATA

| | | | |
|----------------|----------|------------------|-----------------|
| structure no.: | 659000.1 | city/town: | Freeman |
| county: | Cass | feature inters.: | Massey Creek |
| | | cadastral grid: | S18, T44N, R32W |
| | | highway route: | County Road 659 |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

superstructure: steel, 4-panel, pin-connected Pratt pony truss, with steel stringer approach spans

substructure: concrete abutments, wingwalls and piers

| | | | |
|----------------|-------|-----------------|------------------------------------|
| span number: | 1 | condition: | fair |
| span length: | 70.0' | alterations: | unknown |
| total length: | 91.0' | floor/decking : | concrete deck over steel stringers |
| roadway width: | 14.0' | other features: | steel angle guardrails |

HISTORICAL DATA

erection date: 1919

erection cost: \$6495.00

designer: Kansas City Bridge Company, Kansas City MO

fabricator : Kansas City Bridge Company, Kansas City MO

contractor: Kansas City Bridge Company, Kansas City MO

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 659000.1; Cass County Court Record, Book H: page 40 (10 August 1875); Book X: page 244 (9 February 1918), page 249 (4 March 1918), page 325 (7 August 1918); Cass County Minute Book: 1919 - 1923: page 30 (7 January 1920), page 48 (9 April 1920)- located at the Cass County Courthouse, Harrisonville MO.

sign. rating: 42

evaluation: NRHP non-eligible (typically configured, relatively late example of common structural type)

inventoried by: Mark Hufstetler 27 August 1992

Clark Bridge

CASS66

GENERAL DATA

| | | | |
|----------------|------|------------------|-------------------------------|
| structure no.: | none | city/town: | 5.0 miles northwest of Archie |
| county: | Cass | feature inters.: | Grand River |
| | | cadastral grid: | S6/7, T43N, R31W |
| | | highway route: | vacated county road |
| | | highway distr.: | 4 |
| | | current owner: | Cass County |

STRUCTURAL DATA

superstructure: wrought iron, 6-panel, pin-connected Pratt through truss
substructure: stone masonry abutments and wingwalls

| | | | |
|----------------|---------|-----------------|--|
| span number: | 1 | condition: | fair |
| span length: | unknown | alterations: | bridge closed |
| total length: | unknown | floor/decking : | timber deck over timber stringers |
| roadway width: | unknown | other features: | upper chord and inclined end post: 2 channels with cover and batten plates; lower chord: 2 punched rectangular eyebars; vertical: 2 channels with lacing; diagonal: 2 punched rectangular eyebars; counter: round eyerod with unslotted turnbuckle; lateral bracing: round rod with threaded ends; strut: I-beam; floor beam: I-beam, U-bolted to lower chord pins; portal builder's plate: MO. VALLEY BRIDGE & IRON WORKS / 1880 / INSLEY SHIRE & C° / LEAVENWORTH, KANS. |

HISTORICAL DATA

erection date: c1865 (substructure); 1880 (superstructure)
erection cost: \$1450.00 (superstructure cost)
designer: F.E. Bybee
fabricator : Missouri Valley Bridge and Iron Works, Leavenworth KS
contractor: Missouri Valley Bridge and Iron Works, Leavenworth KS

references: Cass County Court Record, Book H: page 123 (24 April 1874); Book I: page 253 (19 July 1877); Book J: page 286 (16 December 1879); page 333 (11 February 1880), page 361 (1 March 1880), pages 386-387 (5 April 1880), page 447 (5 July 1880); 1896 Cass County Minute Book: page 132 (4 October 1897) - located at the Cass County Court-house, Harrisonville MO; field inspection by Mark Hufstetler, 10 February 1991.

sign. rating: 58
evaluation: NRHP possibly eligible (well-preserved, early example of mainstay structural type)

inventoried by: Mark Hufstetler 27 August 1992

HAER INVENTORY

Missouri Historic Bridge Inventory

NAME(S) OF STRUCTURE

Hall Bridge (Massey Creek Bridge)
MHTD: 193001.0

CASS21

DATE(S) OF CONSTRUCTION

1904

LOCATION

County Road 193 over Massey Creek; S35, T45N, R33W
3.0 miles east of Cleveland; Cass County, Missouri

USE (ORIGINAL / CURRENT)

roadway bridge / roadway bridge

RATING NRHP non-eligible (score: 40)

CONDITION

fair

OWNER

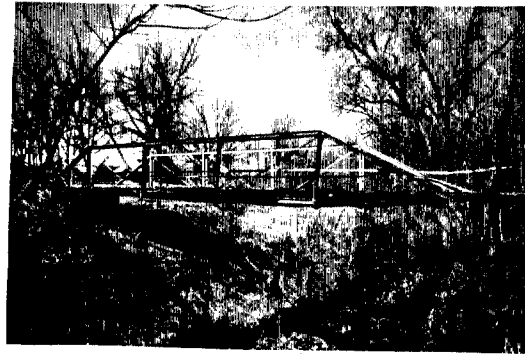
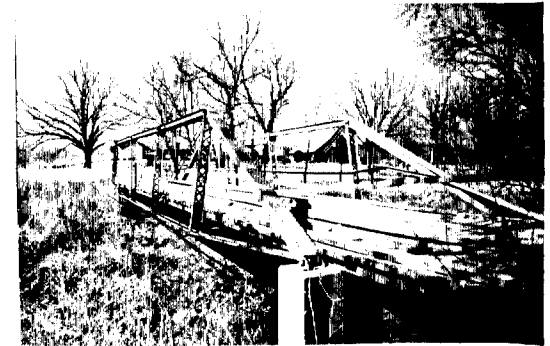
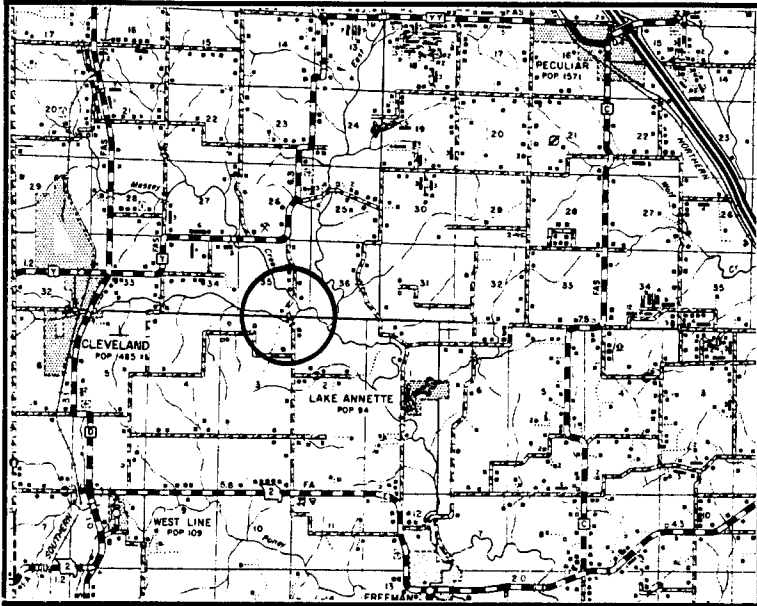
Cass County

| | | | |
|---------------|--------|-----------------|--|
| span number: | 1 | superstructure: | steel, 5-panel, pin-connected Pratt pony truss, with steel stringer approach spans |
| span length: | 80.0' | substructure: | concrete abutments, wingwalls and piers |
| total length: | 104.0' | floor/decking: | timber deck over steel stringers |
| roadway wdt.: | 14.0' | other features: | upper chord and inclined end post: 2 channels with cover and batten plates; lower chord: 2 punched rectangular eyebars; vertical: 4 angles with double lacing; diagonal: 2 punched rectangular eyebars; counter: square eyebar with turnbuckle; lateral bracing: round rod with threaded ends; floor beam: I-beam, field-bolted to verticals; guardrail: 1 angle |

This single-span truss carries County Road 193 over Massey Creek in western Cass County. Comprised of a pinned Pratt pony truss, supported by a concrete substructure and approached by steel stringer spans, the Hall Bridge - as it was locally known - was erected in 1904. In May of that year the Cass County Court directed the county road and bridge commissioner to draw up plans and specifications, estimate the cost, and solicit bids for this bridge and five others around the county. The court in June contracted for four of the medium-span structures with Harrisonville, Missouri, contractor George Bird. It was not until August, however, that the county hired Bird to build the bridge near Joe Hall's farm for \$1125.00. Bird used a pinned truss fabricated by the Canton Bridge Company of Canton, Ohio, completing it later that year. The Hall Bridge lasted less than a year before it required a major reconstruction of its substructure. In October 1905 the county purchased new steel cylinder piers to place under the existing truss. These piers were later replaced with a concrete substructure, but the truss remains intact, as the Hall Bridge continues to function in place at this rural Union Township crossing. It is a typically configured example of a mainstay structural type in Missouri - the Pratt pony truss.

NAME(S) OF STRUCTURE

Hall Bridge (Massey Creek Bridge)

PHOTOS AND SKETCH MAP OF LOCATION**LOCATION MAP**

TAKEN FROM MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT
GENERAL HIGHWAY MAP

SOURCES

Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 193001.0; Cass County Court Record, Book R, page 590 (5 May 1904), page 602 (7 June 1904); Book S: page 14 (5 August 1904), page 74 (6 December 1911), pages 274-75 (6 October 1905) - located at the Cass County Courthouse, Harrisonville MO; field inspection by Mark Hufstetler, 10 February 1991.

INVENTORIED BY

Mark Hufstetler

AFFILIATION

Fraserdesign

DATE

27 August 1992

HAER INVENTORY

Missouri Historic Bridge Inventory

NAME(S) OF STRUCTURE

Grand River Bridge
MHTD: 299000.3

CASS28

DATE(S) OF CONSTRUCTION

c1875

LOCATION

County Road 299 over Massey Creek; S12, T44N, R33W
0.9 mile north of Freeman; Cass County, Missouri

USE (ORIGINAL / CURRENT)

roadway bridge / roadway bridge

RATING NRHP eligible (score: 81)

CONDITION

fair

OWNER

Cass County

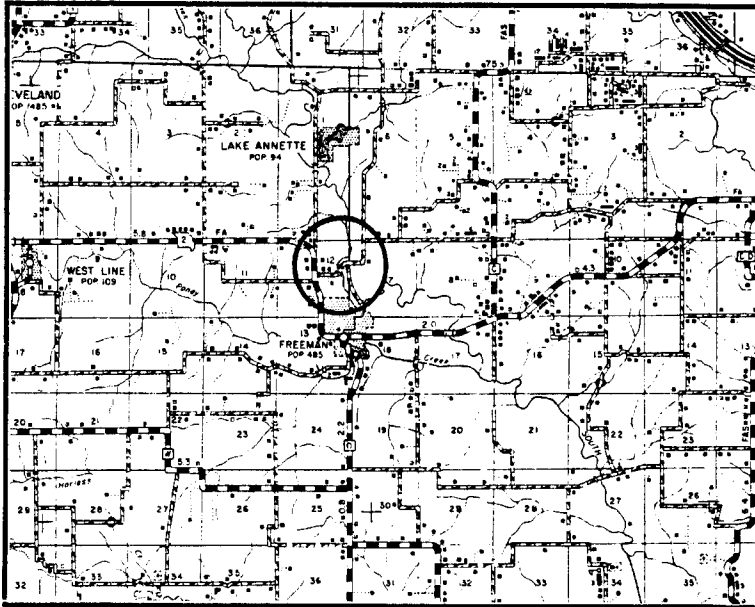
| | | | |
|---------------|-------|-----------------|---|
| span number: | 1 | superstructure: | wrought iron, 9-panel bowstring pony arch-truss |
| span length: | 98.0' | substructure: | stone abutments and wingwalls |
| total length: | 98.0' | floor/decking: | timber deck over steel stringers |
| roadway wdt.: | 13.7' | other features: | arch rib: box girder comprised of two channels with top and bottom cover plates; lower chord: 2 rectangular eyebars; vertical: 2 round rods, threaded into cast iron skewback; diagonal: round rod, threaded into cast iron skewback; lateral bracing: round rod with turnbuckle; floor beam: I-beam, clamped to lower chord; guardrail: timber |

Located just north of Freeman, this bowstring arch-truss carries what was once the main road west from Harrisonville over the North Fork of the Grand River (now called Massey Creek). The timber-decked bridge features a wrought iron 98-foot truss, supported by cut stone abutments. The truss bears the earmarks of early 1870s fabrication by the Missouri Valley Bridge and Iron Company of Leavenworth, Kansas. Although Missouri Valley was active in Cass County during this period, no specific references to a bridge at this crossing have been located in the Cass County Court Record. The date, therefore, must be approximated. The iron superstructure of the bridge remains intact, but the deck and floor system have evidently been replaced.

The bowstring arch-truss was the iron span of choice for Missouri counties in the late 1860s and 1870s. Marketed extensively by such industry giants as the Wrought Iron Bridge Company, the King Iron Bridge Company of Ohio and the Missouri Valley Bridge and Iron Works of Kansas, these often-patented bridge forms featured a wide range of span lengths, economical fabrication cost and relatively quick erection. The proliferation of the bowstring coincided with the initial development of Missouri's road system, and as a result, perhaps thousands of these prototypical iron spans were erected throughout the state. The bowstring design had some rather severe structural flaws, however, and it was superseded by the pin-connected truss in the early 1880s. Through subsequent attrition, almost all of Missouri's bowstrings have since been replaced and demolished. Now only a half-dozen remain in place, two of which use pony configurations. One of the last of its kind still functioning as designed, the Grand River Bridge in Cass County is a significant resource in the interpretation of Missouri transportation development.

NAME(S) OF STRUCTURE

Grand River Bridge

PHOTOS AND SKETCH MAP OF LOCATION**LOCATION MAP**

TAKEN FROM MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT
GENERAL HIGHWAY MAP

SOURCES

Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 299000.3; field inspection by Mark Hufstetler, 10 February 1991.

INVENTORIED BY

Mark Hufstetler

AFFILIATION

Fraserdesign

DATE

27 August 1992

HAER INVENTORY

Missouri Historic Bridge Inventory

NAME(S) OF STRUCTURE

Russell Bridge (Eight Mile Creek Bridge)
MHTD: 338000.7

CASS32

DATE(S) OF CONSTRUCTION

1905

LOCATION

County Road 338 over Eight Mile Creek; S1/12, T44N, R30/31W
3.5 miles southeast of Harrisonville; Cass County, Missouri

USE (ORIGINAL / CURRENT)

roadway bridge / roadway bridge

RATING NRHP potentially eligible (score: 48)

CONDITION

fair

OWNER

Cass County

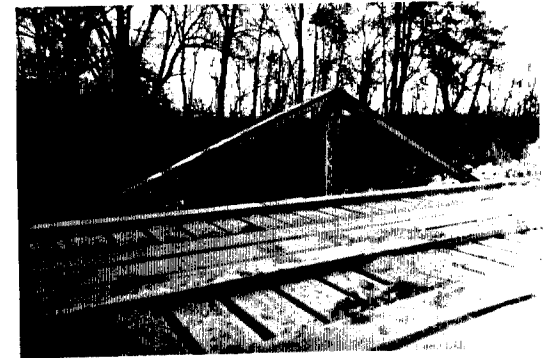
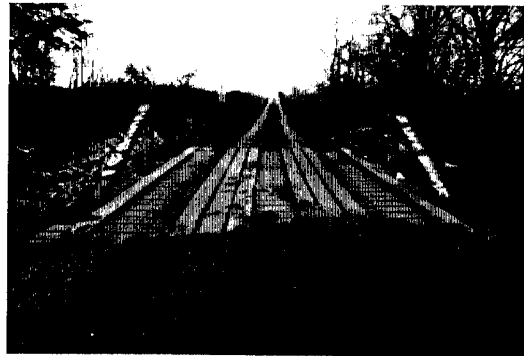
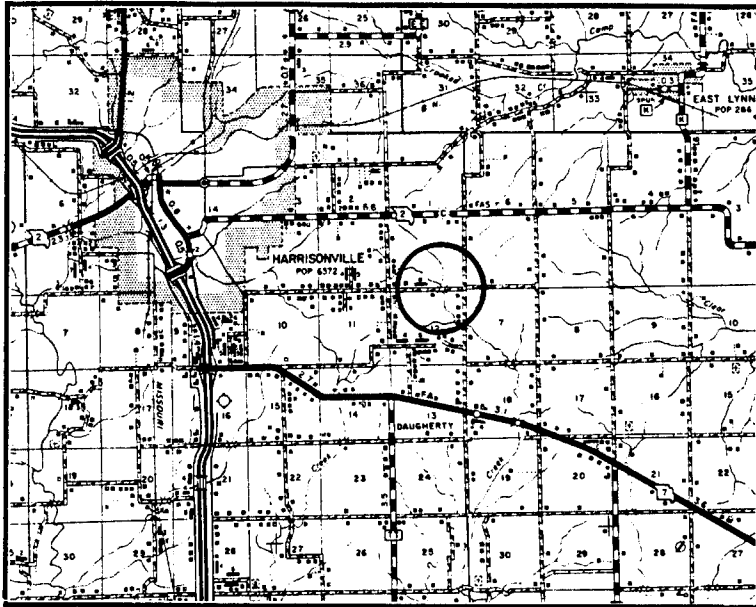
| | | | |
|---------------|-------|-----------------|--|
| span number: | 1 | superstructure: | steel, pin-connected kingpost pony truss |
| span length: | 24.0' | substructure: | steel pile bent abutments with timber back- and wingwalls |
| total length: | 24.0' | floor/decking: | timber deck over steel stringers |
| roadway wdt.: | 14.0' | other features: | inclined end post: 2 channels with cover and batten plates; lower chord: 2 looped rectangular eyebars; vertical: 4 angles with lacing; lateral bracing: round rod with threaded ends; floor beam: I-beam, field-bolted to vertical |

Dating to 1905, this small-scale truss spans Eight Mile Creek some three miles southeast of Harrisonville, in central Cass County. The bridge consists of a kingpost pony truss supported by steel pile bent abutments with timber backwalls. Known locally as the Russell Bridge, it was constructed in 1905 by George Bird, a contractor based in nearby Harrisonville. The Cass County Court hired Bird that May to build this structure for \$417.00 and several other small steel spans. Since its completion later that year, the Russell Bridge has functioned in place, with no substantial alterations.

With its roots extending to the middle ages, the kingpost pony truss is the most rudimentary truss type. Numerous kingposts were built on Missouri's early roads in the 19th century, executed first as timber/iron combination structures and later in all-metal configurations. The kingpost as a structural type was limited to relatively short-span applications, however, and as steel beam bridges received widespread acceptance after the turn of the century, erection of kingpost trusses declined rapidly. This bridge in Cass County is an unusually late example of all-steel kingpost fabrication. Its technological significance is enhanced by its well-preserved physical condition and by the fact that almost all of the once-numerous kingpost trusses in Missouri have since been demolished.

NAME(S) OF STRUCTURE

Russell Bridge (Eight Mile Creek Bridge)

PHOTOS AND SKETCH MAP OF LOCATION**LOCATION MAP**

TAKEN FROM MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT
GENERAL HIGHWAY MAP

SOURCES

Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 338000.7; Cass County Court Record, Book S: page 175 (5 May 1905) - located at the Cass County Courthouse, Harrisonville MO; field inspection by Lon Johnson, 10 February 1991.

INVENTORIED BY

Mark Hufstetler

AFFILIATION

Fraserdesign

DATE

27 August 1992

HAER INVENTORY

Missouri Historic Bridge Inventory

NAME(S) OF STRUCTURE

East Fork Bridge
MHTD: 361000.6

CASS35

DATE(S) OF CONSTRUCTION

c1890

LOCATION

County Road 361 over East Fork of the Grand River; S31, T44N, R31W
6.0 miles south of Harrisonville; Cass County, Missouri

USE (ORIGINAL / CURRENT)

roadway bridge / roadway bridge

RATING NRHP non-eligible (score: 37)

CONDITION

fair

OWNER

Cass County

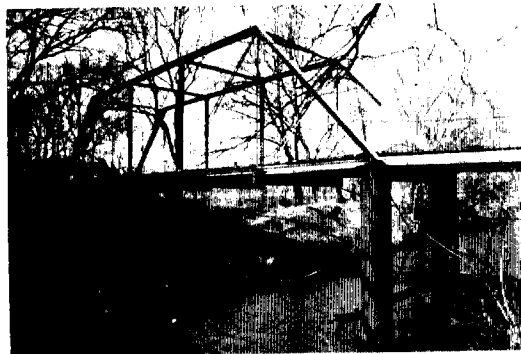
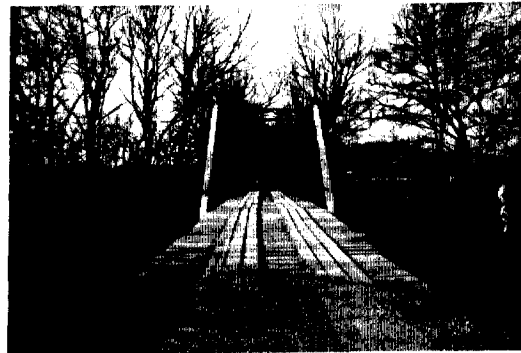
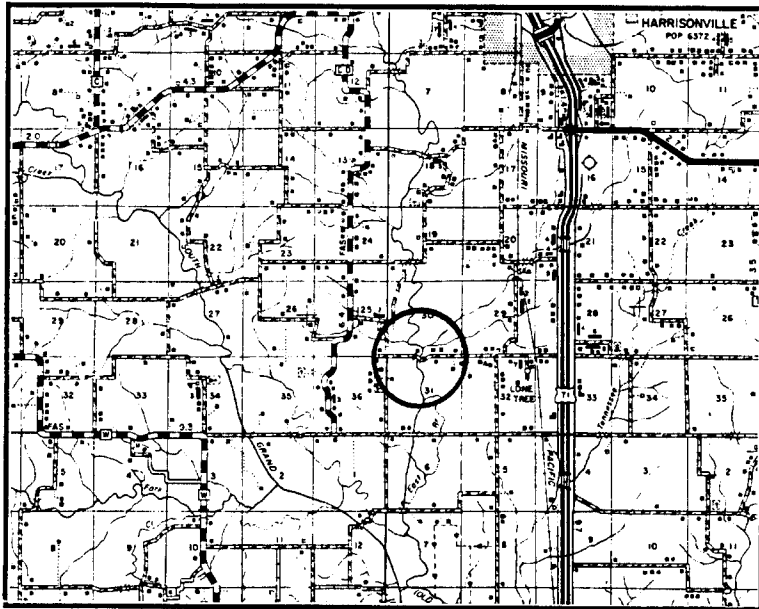
span number: 1
span length: 70.0'
total length: 104.0'
roadway wdt.: 14.0'

superstructure: wrought iron, 5-panel, pin-connected Pratt through truss, with 2 timber stringer approach spans
substructure: concrete-filled iron cylinder piers; timber pile bent piers and abutments at approach spans
floor/decking: timber deck over timber stringers
other features: upper chord and inclined end post: 2 channels with cover plate and lacing; lower chord: 2 punched eyebars; vertical: 2 channels with lacing; diagonal: 2 punched rectangular eyebars; counter: round eyerod with turnbuckle; lateral bracing: round rod with threaded ends; strut: I-beam; floor beam: riveted plate girder, U-bolted to lower chord pins; guardrail: twisted cable

Located in south-central Cass County, six miles south of Harrisonville, this Pratt through truss spans the East Fork of the Grand River. This truss features pin-connected detailing and wrought iron web members typical for the late 1880s and early 1890s. Builder's plates on the truss's portals indicate that it was fabricated by the Kansas City Bridge and Iron Company, which was active in Cass County during this period. County records have failed to provide definitive documentation of the bridge's construction, however. The East Fork Bridge continues to carry traffic at this rural crossing, although its portals on both ends have been heavily damaged due to collision by tall vehicles. It is a representative early example of a mainstay structural type for Missouri: the pinned Pratt through truss.

NAME(S) OF STRUCTURE

East Fork Bridge

PHOTOS AND SKETCH MAP OF LOCATION**LOCATION MAP**

TAKEN FROM MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT
GENERAL HIGHWAY MAP

SOURCES

Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 361000.6; field inspection by Mark Hufstetler, 10 February 1992.

INVENTORIED BY

Mark Hufstetler

AFFILIATION

Fraserdesign

DATE

27 August 1992

HAER INVENTORY

Missouri Historic Bridge Inventory

NAME(S) OF STRUCTURE

Prewitt Bridge (East Fork Bridge)
MHTD: 364000.4

CASS36

DATE(S) OF CONSTRUCTION

c1905

LOCATION

County Road 364 over East Fork of the Grand River; S20, T44N, R31W
4.2 miles south of Harrisonville; Cass County, Missouri

USE (ORIGINAL / CURRENT)

roadway bridge / roadway bridge

RATING NRHP potentially eligible (score: 46)

CONDITION

fair

OWNER

Cass County

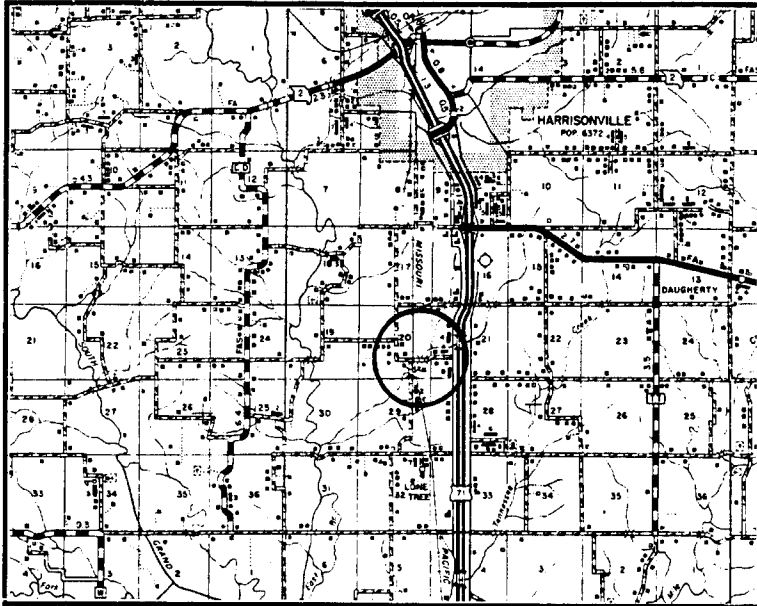
| | |
|---------------------|--|
| span number: 1 | superstructure: steel, pin-connected kingpost pony truss |
| span length: 32.0' | substructure: steel pile bent abutments and timber back- and wingwalls |
| total length: 32.0' | floor/decking: timber deck over timber stringers |
| roadway wdt.: 13.8' | other features: inclined end post: 2 channels with cover and batten plates; lower chord: 2 looped rectangular eyebars; vertical: 4 angles with lacing; lateral bracing: round rod with threaded ends; floor beam: I-beam, field-bolted to verticals; guardrail: timber |

This pin-connected kingpost pony truss spans the East Fork of the Grand River about four miles south of Harrisonville, in south-central Cass County. Known locally as the Prewitt Bridge, the small-scale structure is supported by I-beam pile abutments with timber backwalls and guardrails. It was constructed in 1905 by George Bird, a contractor based in nearby Harrisonville. The Cass County Court hired Bird that May to build this structure for \$440.00, the Russell Bridge [CASS32], and several other small steel spans. Since its completion later that year, the Prewitt Bridge has functioned in place, with the replacement of its center floor beam and addition of steel outriders as the only alteration of note.

The kingpost configuration is simple, consisting of a single triangle with reinforcing timber or steel members. With its roots extending to the middle ages, the kingpost is the most rudimentary truss type. Numerous kingposts were built on Missouri's early roads in the 19th century, executed first as timber/iron combination structures and later in all-metal configurations. The kingpost as a structural type was limited to relatively short-span applications, however, and as steel beam bridges received widespread acceptance after the turn of the century, erection of kingpost trusses declined rapidly. This bridge in Cass County is an unusually late example of all-steel kingpost fabrication. Its technological significance is enhanced by its well-preserved physical condition and by the fact that almost all of the once-numerous kingpost trusses in Missouri have since been demolished.

NAME(S) OF STRUCTURE

Prewitt Bridge (East Fork Bridge)

PHOTOS AND SKETCH MAP OF LOCATION**LOCATION MAP**

TAKEN FROM MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT
GENERAL HIGHWAY MAP

SOURCES

Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 364000.4; Cass County Court Record, Book S: page 175 (5 May 1905) - located at the Cass County Courthouse, Harrisonville MO; field inspection by Mark Hufstetler, 10 February 1991.

INVENTORIED BY

Mark Hufstetler

AFFILIATION

Fraserdesign

DATE

27 August 1992

HAER INVENTORY

Missouri Historic Bridge Inventory

NAME(S) OF STRUCTURE

Grand River Bridge
MHTD: 534002.2

CASS55

DATE(S) OF CONSTRUCTION

1884

LOCATION

County Road 534 over New Channel of the Grand River; S12, T43N, R32W
5.1 miles northwest of Archie; Cass County, Missouri

USE (ORIGINAL / CURRENT)

roadway bridge / roadway bridge

RATING NRHP non-eligible (score: 33)

CONDITION

fair

OWNER

Cass County

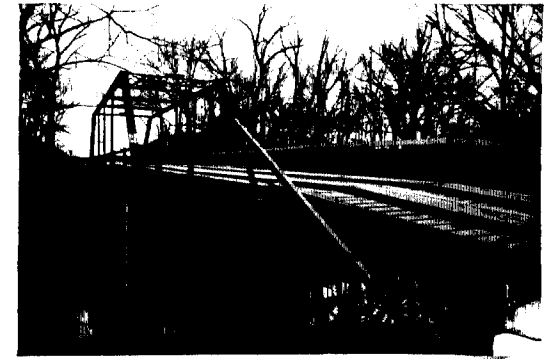
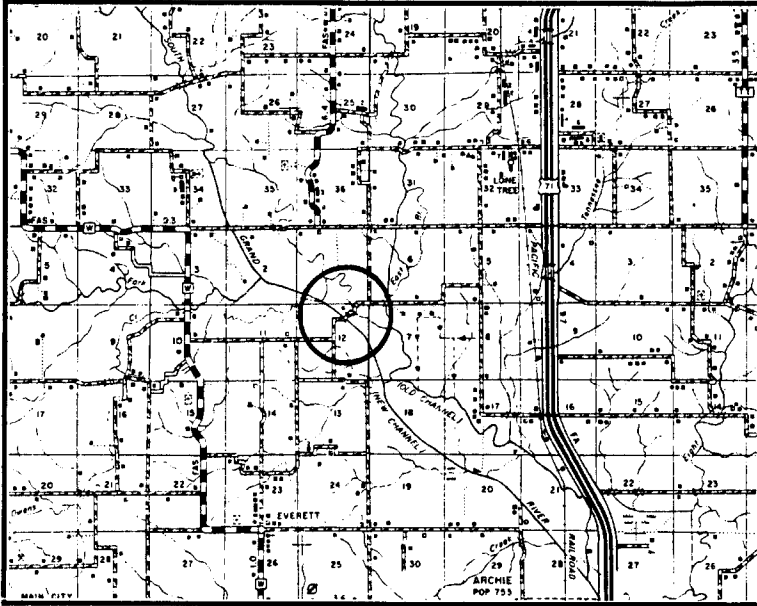
span number: 1
span length: 64.0'
total length: 153.0'
wdt.: 13.8'

superstructure: wrought iron, 6-panel, pin-connected Pratt through truss, with steel stringer approach spans
substructure: concrete spill-through piers under truss; timber pile bent abutments and piers at roadway approaches
floor/decking: timber deck over timber stringers
other features: upper chord and inclined end post: 2 channels with cover plate and lacing; lower chord: 2 punched rectangular eyebars; vertical: I-beam; diagonal: 2 punched rectangular eyebars; lateral bracing: round rod with threaded ends; strut: I-beam; floor beam: I-beam, U-bolted to lower chord pins; guardrail: timber

This short-span through truss spans the New Channel of the Grand River northwest of Archie, in south-central Cass County. The bridge features a single pinned Pratt truss, supported by concrete spill-through piers, with steel stringer approach spans. The truss was reportedly moved to this location in 1929, at which time the concrete substructure and approach spans were built. It had been fabricated in 1884 by the obscure Osage Bridge and Iron Works. Cass County records do not record any dealings with Osage B&I at that time, indicating that the truss was moved here from another county. This move and the clouded origins of the truss limit its interpretive value, as does its relatively poor physical integrity. The Grand River Bridge is thus an early, though not particularly significant, example of a Missouri mainstay structural type - the pinned Pratt through truss.

NAME(S) OF STRUCTURE

Grand River Bridge

PHOTOS AND SKETCH MAP OF LOCATION**LOCATION MAP**

TAKEN FROM MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT
GENERAL HIGHWAY MAP

SOURCES

Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 534002.2; field inspection by Mark Hufstetler, 10 February 1991.

INVENTORIED BY

Mark Hufstetler

AFFILIATION

Fraserdesign

DATE

27 August 1992

HAER INVENTORY

Missouri Historic Bridge Inventory

NAME(S) OF STRUCTURE

App Bridge (Black Creek Bridge)
MHTD: 540000.8

CASS56

DATE(S) OF CONSTRUCTION

1897

LOCATION

County Road 540 over Black Creek; S35/36, T43N, R32W
3.6 miles southwest of Archie; Cass County, Missouri

USE (ORIGINAL / CURRENT)

roadway bridge / roadway bridge

RATING NRHP non-eligible (score: 37)

CONDITION

poor

OWNER

Cass County

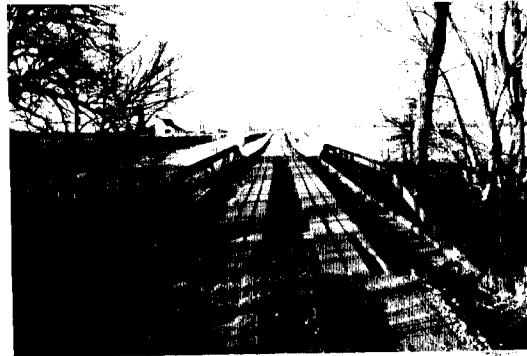
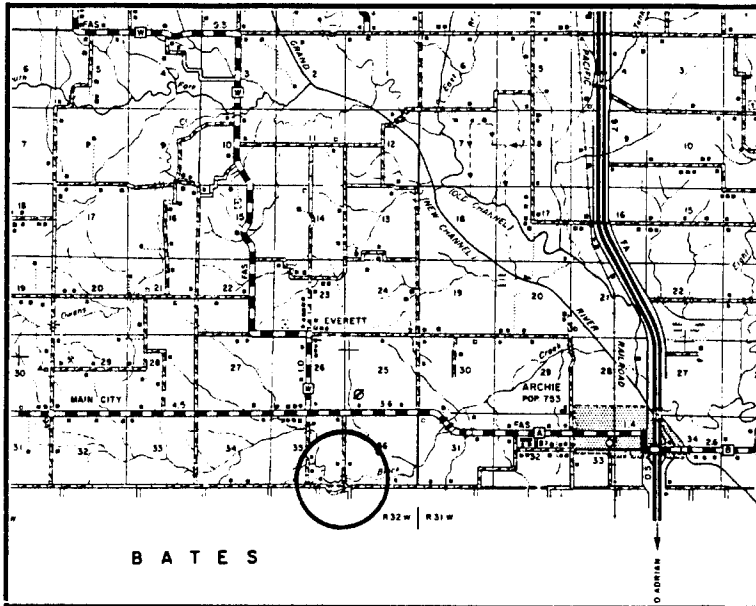
span number: 1
span length: 40.0'
total length: 63.0'
roadway wdt.: 14.0'

superstructure: steel, 3-panel, pin-connected Pratt truss-leg bedstead, with steel deck girder approach spans
substructure: steel truss-leg piers, with concrete abutments and wingwalls
floor/decking: timber deck over steel girders
other features: upper chord and upright end post: 2 channels with lacing; lower chord: 2 angles with batten plate or 2 rectangular eyebars; vertical: 4 angles with lacing; diagonal: 2 rectangular eyebars; lateral bracing: round rod with threaded ends; floor beam: I-beams, U-bolted to lower chord pins; guardrail: timber

Located over Black Creek in extreme southern Cass County, this small-scale bridge was constructed in 1897 by the Kansas City-based contractors Farnsworth and Blodgett. The structure functioned for years as a truss-leg bedstead, with stringer approach spans on both ends. More recently, however, the abutments have been replaced with concrete, and deep steel girders have replaced the original floor system. The original trussed superstructure has thus been superseded by the new girders, rendering them structurally redundant. The App Bridge, as it was called in 1911, is thus a poorly preserved, early example of a Missouri mainstay structural type.

NAME(S) OF STRUCTURE

App Bridge (Black Creek Bridge)

PHOTOS AND SKETCH MAP OF LOCATION**LOCATION MAP**

TAKEN FROM MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT
GENERAL HIGHWAY MAP

SOURCES

Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 540000.8; Cass County Court Record, Book U: page 365 (12 August 1911) page 386 (6 September 1911); Book X: page 505 (10 April 1919) - located at the Cass County Courthouse, Harrisonville MO; field inspection by Mark Hufstetler, 10 February 1991.

INVENTORIED BY

Mark Hufstetler

AFFILIATION

Fraserdesign

DATE

27 August 1992

HAER INVENTORY

Missouri Historic Bridge Inventory

NAME(S) OF STRUCTURE

Clark Bridge (Grand River Bridge)
MHTD: none

CASS66

DATE(S) OF CONSTRUCTION

c1865 (substructure); 1880 (superstructure)

LOCATION

vacated county road over Grand River; S6/7, T43N, R31W
5.0 miles northwest of Archie; Cass County, Missouri

USE (ORIGINAL / CURRENT)

roadway bridge / abandoned

RATING NRHP potentially eligible (score: 58)

CONDITION

fair

OWNER

Cass County

| | | | |
|---------------|---------|-----------------|--|
| span number: | 1 | superstructure: | wrought iron, 6-panel, pin-connected Pratt through truss |
| span length: | unknown | substructure: | stone masonry abutments and wingwalls |
| total length: | unknown | floor/decking: | timber deck over timber stringers |
| roadway wdt.: | unknown | other features: | upper chord and inclined end post: 2 channels with cover and batten plates; lower chord: 2 punched rectangular eyebars; vertical: 2 channels with lacing; diagonal: 2 punched rectangular eyebars; counter: round eyerod with unslotted turnbuckle; lateral bracing: round rod with threaded ends; strut: I-beam; floor beam: I-beam, U-bolted to lower chord pins; portal builder's plate: MO. VALLEY BRIDGE & IRON WORKS / 1880 / INSLEY SHIRE & C ^a / LEAVENWORTH, KANS. |

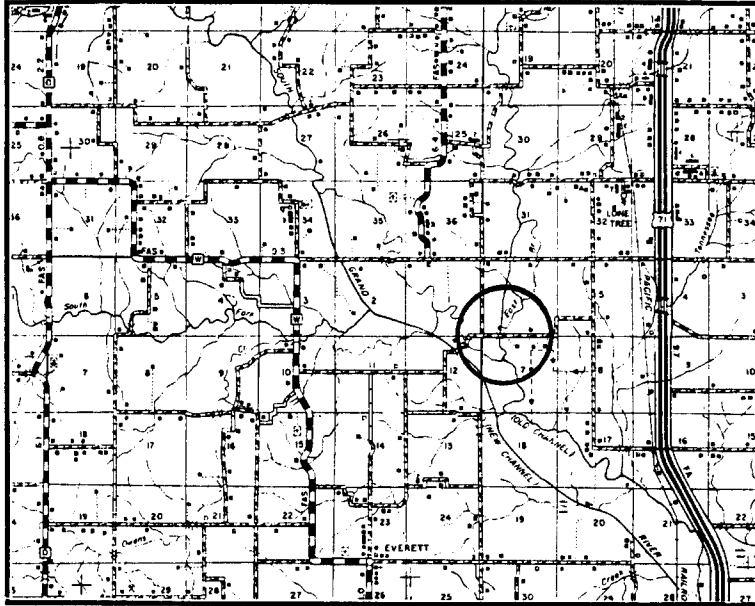
The Clark Bridge spans the original channel of the Grand River on a vacated county road in western Cass County. Located on the main north-south route through Cass County, the crossing was a strategic one during the county's early development, and the present iron Pratt truss is at least the second bridge to occupy this site. An early combination truss was already experiencing difficulties by the late 1870s, when the county undertook repeated substructural and superstructural repairs to keep it open. Finally, in December 1879, owing to unspecified damage, S.E. Licklider was ordered by the court to auction off the bridge, which was lying prostrate in the stream. Adverse weather forced Licklider to postpone the outdoor sale in order to give "interested parties a chance to come to it." But at the re-scheduled auction "the weather continued unfavorably and a rise in the river was expected hourly," he reported. "It appeared that no one wanted to invest unless I would be responsible for flood [damage to the truss in the river] and as a result no bids were received. Finally H.H. Parish said he would raise the Burford bid [\$20] five dollars and that was all he would give."

The county accepted the paltry bid, appropriating \$1000.00 for the erection of a new all-iron truss on the existing stone abutments in February 1880. The judges approved plans and specifications drafted by county road commissioner F.E. Bybee; in April they awarded the contract to fabricate and erect the replacement span to the Missouri Valley Bridge and Iron Works of Leavenworth, Kansas. The bridge was to be completed by July 10, 1880, according to the written agreement. Completing the structure before the contractual deadline, Mo Valley was issued a warrant for \$1450.00. Since its completion, the wrought iron bridge has carried traffic across the Grand River in essentially unaltered condition. It has more recently been closed to traffic and has been allowed by the county to molder in place.

In the early 1880s, the pin-connected Pratt truss superseded the bowstring arch-truss as the iron bridge of choice for medium-span wagon crossings. Patented in 1844 by Thomas and Caleb Pratt, the Pratt design is distinguished by vertical members acting in compression and diagonals that act in tension. "The Pratt truss is the type most commonly used in America for spans under two hundred and fifty (250) feet in length," noted bridge engineer J.A.L. Waddell wrote in 1916. "Its advantages are simplicity, economy of metal, and suitability for connecting to the floor and lateral systems." Virtually all of the major regional bridge fabricators manufactured Pratt trusses and marketed them extensively to Missouri's counties. The Missouri Valley Bridge and Iron Works was a major player in western Missouri during the late 19th century, and the Clark Bridge represents that company's penchant for pinned truss construction. With an erection date of 1880, the Clark Bridge is distinguished as the oldest originally placed Pratt truss remaining in Missouri. It is thus a technologically and historically significant, well-preserved, transportation-related resource: one of the most important of the state's early spans.

NAME(S) OF STRUCTURE

Clark Bridge (Grand River Bridge)

PHOTOS AND SKETCH MAP OF LOCATION**LOCATION MAP**

TAKEN FROM MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT
GENERAL HIGHWAY MAP

SOURCES

Cass County Court Record, Book H: page 123 (24 April 1874); Book I: page 253 (19 July 1877); Book J: page 286 (16 December 1879); page 333 (11 February 1880), page 361 (1 March 1880), pages 386-387 (5 April 1880), page 447 (5 July 1880); 1896 Cass County Minute Book: page 132 (4 October 1897) - located at the Cass County Courthouse, Harrisonville MO; field inspection by Mark Hufstetler, 10 February 1991.

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DATE

27 August 1992
